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<b>(21) International Application Number:</b> PCT/US98/06955 <b>(22) International Filing Date:</b> 10 April 1998 (10.04.98) <b>(30) Priority Data:</b> 08/838,821 10 April 1997 (10.04.97) US <b>(71) Applicant:</b> GENETICS INSTITUTE, INC. [US/US]; 87 CambridgePark Drive, Cambridge, MA 02140 (US). <b>(72) Inventors:</b> JACOBS, Kenneth; 151 Beaumont Avenue, Newton, MA 02160 (US). MCCOY, John, M.; 56 Howard Street, Reading, MA 01867 (US). LAVALLIE, Edward, R.; 113 Ann Lee Road, Harvard, MA 01451 (US). RACIE, Lisa, A.; 124 School Street, Acton, MA 01720 (US). MERBERG, David; 2 Orchard Drive, Acton, MA 01720 (US). TREACY, Maurice; 93 Walcott Road, Chestnut Hill, MA 02167 (US). SPAULDING, Vikki; 11 Meadowbank Road, Billerica, MA 01821 (US). AGOSTINO, Michael, J.; 26 Wolcott Avenue, Andover, MA 01810 (US). <b>(74) Agent:</b> SPRUNGER, Suzanne, A.; Genetics Institute, Inc., 87 CambridgePark Drive, Cambridge, MA 02140 (US).		<b>(81) Designated States:</b> AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).  <b>Published</b> <i>Without international search report and to be republished upon receipt of that report.</i>
<b>(54) Title:</b> SECRETED EXPRESSED SEQUENCE TAGS (sESTs)  <b>(57) Abstract</b>  Secreted expressed sequence tags (sESTs) isolated from a variety of human tissue sources are provided.		

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## SECRETED EXPRESSED SEQUENCE TAGS (sESTs)

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FIELD OF THE INVENTION

The present invention provides novel polynucleotides which are expressed sequence tags (ESTs) for secreted proteins.

BACKGROUND OF THE INVENTION

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Gargantuan efforts have been employed by various investigational projects to randomly sequence portions of naturally-occurring cDNAs. The rationale behind this approach to identification and sequencing genes is founded in two basic principles: (1) that transcribed cDNAs represent the product of the most important genes, namely those that are actually expressed *in vivo*, and (2) that efforts to sequence genes and other portions of the genome of target organisms which are not actually expressed wastes substantial effort on areas not likely to yield genetic information of therapeutic importance. Thus, the high-throughput sequencing efforts focus on only those portions of the genome which are expressed. The randomly produced cDNA sequences represent "expressed sequence tags" or "ESTs", which identify and can be used as probes for the longer, full-length cDNA or genomic sequence from which they were transcribed.

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Although this "shortcut" approach to genomic sequencing presents savings of effort compared to sequencing of the complete genome, it still produced a vast array of ESTs which may not be directly useful as protein therapeutics. To date, the majority of protein-related drug discovery has focused on the use of secreted proteins to produce a desired therapeutic effect. Since the EST approach theoretically identifies all expressed proteins, it produces an EST library which contains a mixture of secreted proteins (such as hormones, cytokines and receptors) and non-secreted proteins (such as, for example, metabolic enzymes and cellular structural proteins), without identifying which ESTs correspond to proteins falling into either category. As a result, these methods are not optimally tailored to the needs of investigators searching for secreted proteins because they must separate the secreted "wheat" from the non-secreted "chaff", wasting effort and resources in the process.

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Co-assigned U.S. Patent No. 5,536,637, which is incorporated herein by reference, provides methods for focusing genomic sequencing efforts on sequences encoding the secreted proteins which are of most interest for identification of protein therapeutics. The '637 patent discloses a "signal sequence trap" which selectively identifies ESTs for secreted

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proteins, namely "secreted expressed sequence tags" or "sESTs". It is to these sESTs that the present invention is directed.

### SUMMARY OF THE INVENTION

5       The present invention provides for sESTs isolated from a variety of human RNA/cDNA sources.

In preferred embodiments, the present invention provides an isolated polynucleotide comprising a nucleotide sequence selected from the group consisting of:

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or a complement of said sequence.

15 In other embodiments, the present invention provides an isolated polynucleotide  
 consisting of a nucleotide sequence selected from the group consisting of:

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or a complement of said sequence.

In further embodiments, the present invention provides an isolated polynucleotide consisting essentially of a nucleotide sequence selected from the group consisting of:

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 30 or a complement of said sequence.

In yet other embodiments, the present invention provides an isolated polynucleotide  
 comprising a nucleotide sequence which hybridizes to a sequence selected from the group  
 consisting of:

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NO:1341, SEQ ID NO:1342, SEQ ID NO:1343, SEQ ID NO:1344, SEQ ID

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NO:1469, SEQ ID NO:1470, SEQ ID NO:1471, SEQ ID NO:1472, SEQ ID  
NO:1473, SEQ ID NO:1474, SEQ ID NO:1475, SEQ ID NO:1476, SEQ ID  
NO:1477, SEQ ID NO:1478, SEQ ID NO:1479, SEQ ID NO:1480, SEQ ID



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 NO:1485, SEQ ID NO:1486, SEQ ID NO:1487, SEQ ID NO:1488, SEQ ID  
 NO:1489, SEQ ID NO:1490, SEQ ID NO:1491, SEQ ID NO:1492, SEQ ID  
 NO:1493, SEQ ID NO:1494, SEQ ID NO:1495, SEQ ID NO:1496, SEQ ID  
 5 NO:1497, SEQ ID NO:1498, SEQ ID NO:1499, and SEQ ID NO:1500;  
 or to a complement of said sequence.

The invention also provides for proteins encoded by the above-described  
 polynucleotides.

10

### DETAILED DESCRIPTION

The nucleotide sequences of the sESTs of the present invention are reported in the  
 Sequence Listing below. Table 2 lists the "Clone ID Nos." assigned by applicants to each  
 SEQ ID NO: in the Sequence Listing.

15 Table 2

Each pair of entries in this table consists of the SEQ ID NO (e.g., 1, 2, etc.)  
 followed by the Clone ID No. for such sequence (e.g., B11, B18, etc.).

	1	BV31	18	CB302	35	BZ83	52	CD244
	2	BV34	19	CB318	36	BZ87	53	CD265
20	3	BV37	20	CB321	37	CB15	54	BT217
	4	BV45	21	CB96	38	CB2	55	BV278
	5	BV8	22	CB98	39	CB44	56	BV280
	6	BV93	23	BZ42	40	CC11	57	BV282
	7	BV99	24	BZ53	41	CC182	58	BV285
25	8	CB100	25	BZ56	42	CC298	59	BV286
	9	CB107	26	BZ6	43	CC310	60	BV291
	10	CB110	27	BZ607	44	CC323	61	BV295
	11	CB114	28	BZ61	45	CC332	62	BW389
	12	CB118	29	BZ62	46	CC335	63	BX135
30	13	CB123	30	BZ641	47	CC338	64	BX141
	14	CB129	31	BZ644	48	CC41	65	BX148
	15	CB137	32	BZ72	49	CC52	66	BZ1
	16	CB239	33	BZ74	50	CD107	67	BZ16
	17	CB259	34	BZ82	51	CD205	68	BZ187

	69	BZ19	103	CE159	137	CH315	171	CC194
	70	BZ205	104	CE2	138	CH325	172	CC198
	71	BZ222	105	CE347	139	BZ568	173	CC199
	72	BZ230	106	CE36	140	BZ578	174	CC205
5	73	BZ234	107	CE40	141	BZ588	175	CC215
	74	BZ244	108	CE87	142	BZ597	176	CC253
	75	BZ269	109	CG1	143	BZ598	177	CC258
	76	BZ280	110	CG44	144	CH637	178	CC259
	77	BZ288	111	CG60	145	CH644	179	CC265
10	78	BZ304	112	CG68	146	CH699	180	CC288
	79	BZ328	113	BP202	147	CI240	181	CC95
	80	BZ331	114	BP242	148	CI247	182	CC96
	81	BP646	115	BP243	149	CJ1	183	CD311
	82	BP652	116	BZ444	150	CJ19	184	CD323
15	83	BP656	117	BZ453	151	CJ24	185	CH338
	84	BP666	118	CC233	152	CJ27	186	CH355
	85	BP667	119	CC242	153	CJ3	187	CH377
	86	BP674	120	CC247	154	CJ37	188	CH421
	87	BP695	121	CC344	155	CJ42	189	CH425
20	88	BP705	122	CC346	156	CJ44	190	CH522
	89	BP713	123	CC351	157	CJ49	191	CH541
	90	BP720	124	CC359	158	CJ50	192	CH555
	91	BP750	125	CC364	159	CJ55	193	CH558
	92	BP754	126	CC365	160	CJ6	194	CH582
25	93	BW143	127	CC374	161	CJ76	195	CH595
	94	BR307	128	CE303	162	CJ77	196	CH720
	95	BR309	129	CE328	163	CJ84	197	CH723
	96	BR312	130	CG199	164	CJ86	198	CH724
	97	BR318	131	CG209	165	CJ91	199	CH735
30	98	CB187	132	CG210	166	CC111	200	CH742
	99	CB190	133	CG350	167	CC118	201	CI126
	100	CB204	134	CG354	168	CC120	202	CI129
	101	CB213	135	CG426	169	CC126	203	CI133
	102	CE120	136	CH303	170	CC130	204	CI181

	205	CI229	239	CG160	273	CI395	307	CJ397
	206	CI25	240	CG175	274	CI407	308	CJ400
	207	CI52	241	CG176	275	CI411	309	CJ404
	208	CI84	242	CG180	276	CI437	310	CJ415
5	209	CI91	243	CG279	277	CI443	311	CJ420
	210	BP163	244	CG292	278	CI444	312	CJ424
	211	BP175	245	CG300	279	CI459	313	CJ434
	212	BP199	246	CG301	280	CI480	314	CJ454
	213	BP272	247	CG314	281	CI490	315	CJ457
10	214	BP284	248	CG315	282	CI492	316	CJ481
	215	BP294	249	CG324	283	CI493	317	CJ493
	216	BP299	250	CG336	284	CI510	318	CJ501
	217	BP300	251	CG99	285	CI522	319	CJ514
	218	BP306	252	CH143	286	CI534	320	CJ539
15	219	BP311	253	CH207	287	CI542	321	CJ540
	220	BP312	254	CH224	288	CI560	322	CJ549
	221	BP327	255	CH227	289	CI561	323	CJ551
	222	BP345	256	CH245	290	CI583	324	CK126
	223	BP368	257	CH246	291	CI586	325	CK151
20	224	BP467	258	CH27	292	CJ145	326	CK181
	225	BP468	259	CH30	293	CJ149	327	CK201
	226	BR375	260	CH4	294	CJ160	328	CK213
	227	BR390	261	CH64	295	CJ164	329	CK218
	228	BR408	262	CH78	296	CJ168	330	CK234
25	229	BR418	263	CH85	297	CJ176	331	CK37
	230	BY66	264	CH87	298	CJ183	332	CK48
	231	CF118	265	CN320	299	CJ194	333	CL104
	232	CF127	266	CN343	300	CJ206	334	CL110
	233	CF22	267	CN344	301	CJ230	335	CL122
30	234	CF235	268	CN395	302	CJ237	336	CL132
	235	CG109	269	CN423	303	CJ257	337	CL147
	236	CG131	270	CI363	304	CJ265	338	CL152
	237	CG153	271	CI386	305	CJ378	339	CL181
	238	CG158	272	CI392	306	CJ389	340	CL182

	341	CL399	375	CN516	409	CO58	443	CO155
	342	CL469	376	CN532	410	CO48	444	CO153
	343	CL470	377	CN552	411	CO444	445	CO145
	344	CL481	378	CN593	412	CO431	446	CO140
5	345	CL493	379	CN619	413	CO391	447	CO139
	346	CM12	380	CN621	414	CO384	448	CO128
	347	CM178	381	CN667	415	CO36	449	CO1254
	348	CM188	382	CN703	416	CO351	450	CO1247
	349	CM194	383	CN718	417	CO337	451	CO1232
10	350	CM246	384	CN729	418	CO327	452	CO1224
	351	CM251	385	CN835	419	CO315	453	CO1223
	352	CM54	386	CN896	420	CO304	454	CO1206
	353	CM62	387	CO933	421	CO270	455	CO1198
	354	CN140	388	CO924	422	CO268	456	CO1196
15	355	CN171	389	CO908	423	CO264	457	CO1194
	356	CN173	390	CO900	424	CO261	458	CO1187
	357	CN238	391	CO889	425	CO257	459	CO1180
	358	CN29	392	CO888	426	CO253	460	CO1178
	359	CN291	393	CO874	427	CO25	461	CO1175
20	360	CN304	394	CO851	428	CO246	462	CO117
	361	CN327	395	CO83	429	CO244	463	CO1168
	362	CN49	396	CO821	430	CO240	464	CO1164
	363	CN50	397	CO806	431	CO228	465	CO1162
	364	CN54	398	CO798	432	CO223	466	CO1161
25	365	CN65	399	CO79	433	CO222	467	CO1159
	366	CJ305	400	CO71	434	CO209	468	CO1153
	367	CJ316	401	CO7	435	CO205	469	CO1151
	368	CJ317	402	CO69	436	CO204	470	CO1137
	369	CJ336	403	CO66	437	CO20	471	CO1123
30	370	CJ347	404	CO639	438	CO197	472	CO1076
	371	CJ360	405	CO638	439	CO185	473	CO1072
	372	CJ365	406	CO625	440	CO170	474	CO1026
	373	CJ366	407	CO62	441	CO17	475	CO1000
	374	CN483	408	CO602	442	CO163	476	CN755

	477	CN736	511	CR1166	545	CR632	579	CO409
	478	CN709	512	CR1186	546	CR641	580	CO474
	479	CO975	513	CR1190	547	CT729	581	CO480
	480	CO990	514	CR329	548	CN922	582	CO500
5	481	CP280	515	CR354	549	CN934	583	CO519
	482	CP283	516	CR377	550	CN951	584	CO522
	483	CP287	517	CR390	551	CN952	585	CO526
	484	CP289	518	CR392	552	CN980	586	CO559
	485	CP294	519	CR422	553	CP111	587	CO595
10	486	CP304	520	CR423	554	CP147	588	CO605
	487	CP307	521	CR466	555	CU13	589	CO618
	488	CP311	522	CR477	556	CP251	590	CO629
	489	CP313	523	CR478	557	CP258	591	CO643
	490	CP314	524	CR482	558	CP33	592	CO653
15	491	CP328	525	CR491	559	CP41	593	CO661
	492	CP352	526	CR494	560	CP91	594	CO667
	493	CQ286	527	CR502	561	CP92	595	CO695
	494	CQ294	528	CR506	562	CQ160	596	CO696
	495	CQ304	529	CR513	563	CQ165	597	CO707
20	496	CQ309	530	CR514	564	CQ268	598	CO716
	497	CQ331	531	CR515	565	CQ30	599	CO718
	498	CQ333	532	CR527	566	CR100	600	CO720
	499	CR1116	533	CR529	567	CR178	601	CO722
	500	CR1118	534	CR537	568	CR184	602	CO736
25	501	CR1121	535	CR538	569	CR263	603	CO763
	502	CR1127	536	CR540	570	CR335	604	CO767
	503	CR1135	537	CR541	571	CR4	605	CP116
	504	CR1141	538	CR545	572	CR61	606	CP151
	505	CR1142	539	CR587	573	CR93	607	CI293
30	506	CR1144	540	CR588	574	CO282	608	CI294
	507	CR1147	541	CR593	575	CO310	609	CI298
	508	CR1155	542	CR594	576	CO334	610	CU14
	509	CR1156	543	CR611	577	CO387	611	CU2
	510	CR1162	544	CR618	578	CO390	612	CU25

	613	CU32	647	CR678	681	CT748	715	CS520
	614	CU39	648	CR726	682	CT738	716	CS524
	615	CU40	649	CR733	683	CT726	717	CS534
	616	DA10	650	CR778	684	CT706	718	CT14
5	617	DA136	651	CR836	685	CT705	719	CT142
	618	DA155	652	CR839	686	CT702	720	CT143
	619	DA16	653	CR872	687	CT693	721	CT149
	620	DA165	654	CR890	688	CT677	722	CT156
	621	DA170	655	CR916	689	CT658	723	CT159
10	622	DA183	656	CR929	690	CT645	724	CT162
	623	DA223	657	CR930	691	CT636	725	CT188
	624	DA224	658	CR936	692	CT631	726	CT189
	625	DA225	659	CR974	693	CT616	727	CT190
	626	DA227	660	CT747	694	CT611	728	CT193
15	627	DA228	661	CT727	695	CT600	729	CT194
	628	DA234	662	CT690	696	CT585	730	CT2
	629	DA244	663	CT649	697	CT583	731	CT207
	630	DA246	664	CT624	698	CS224	732	CT220
	631	DA274	665	CT564	699	CS255	733	CT223
20	632	DA471	666	CT88	700	CS267	734	CT226
	633	DA490	667	CT864	701	CS271	735	CT227
	634	DA495	668	CT857	702	CS278	736	CT24
	635	DA496	669	CT852	703	CS284	737	CT254
	636	DA504	670	CT838	704	CS296	738	CT256
25	637	DA505	671	CT808	705	CS297	739	CT258
	638	DA507	672	CT807	706	CS317	740	CT271
	639	DA516	673	CT797	707	CS319	741	CT275
	640	DA529	674	CT791	708	CS322	742	CT28
	641	DA84	675	CT785	709	CS353	743	CT284
30	642	CR1003	676	CT783	710	CS366	744	CT293
	643	CR1013	677	CT780	711	CS471	745	CO1020
	644	CR1044	678	CT771	712	CS475	746	CO1043
	645	CR1056	679	CT754	713	CS485	747	CO1067
	646	CR1063	680	CT750	714	CS516	748	CO1069

	749	CO1080	783	DB257	817	CW1617	851	CT384
	750	CO1081	784	DB343	818	CW1632	852	CT392
	751	CO1094	785	DB415	819	CW1636	853	CT394
	752	CO956	786	DB53	820	CW1640	854	CT415
5	753	CO973	787	DB85	821	CW169	855	CT421
	754	CJ471	788	CW1000	822	CW172	856	CT423
	755	CJ472	789	CW1038	823	CW173	857	CT434
	756	CJ475	790	CW1087	824	CW175	858	CT440
	757	CJ483	791	CW1100	825	CV123	859	CT443
10	758	CJ484	792	CW1109	826	CV156	860	CT450
	759	CJ485	793	CW1112	827	CV160	861	CT453
	760	CJ486	794	CW115	828	CV192	862	CT457
	761	CJ488	795	CW1150	829	CV203	863	CT466
	762	CJ496	796	CW1155	830	CV215	864	CT474
15	763	CJ497	797	CW1177	831	CV227	865	CT475
	764	CJ498	798	CW1195	832	CV263	866	CT479
	765	CJ507	799	CW1200	833	CV275	867	CT489
	766	CJ508	800	CW1201	834	CV305	868	CT51
	767	CJ519	801	CW1214	835	CV328	869	CT519
20	768	CJ520	802	CW1225	836	CV380	870	CT521
	769	CJ521	803	CW1230	837	CV394	871	CT526
	770	CJ522	804	CW1233	838	CV410	872	CT536
	771	CJ534	805	CW1272	839	CV416	873	CT541
	772	CJ536	806	CW1292	840	CV461	874	CT547
25	773	CJ543	807	CW1306	841	CV493	875	CT550
	774	CJ544	808	CW1311	842	CV501	876	CT559
	775	CJ547	809	CW1314	843	CT3	877	CT562
	776	CK53	810	CW1334	844	CT314	878	DE36
	777	CK7	811	CW1365	845	CT317	879	DE37
30	778	CK70	812	CW1372	846	CT320	880	DE4
	779	CL49	813	CW149	847	CT326	881	DE42
	780	CL63	814	CW152	848	CT340	882	DE63
	781	DB203	815	CW1574	849	CT353	883	DE70
	782	DB208	816	CW1611	850	CT358	884	DE83

	885	DE103	919	CS771	953	CW775	987	DA337
	886	DE105	920	CS773	954	CW795	988	DA348
	887	DE110	921	CS776	955	CW802	989	DA373
	888	DE114	922	CW222	956	CW823	990	DA388
5	889	DE117	923	CW224	957	CW835	991	DA389
	890	DE119	924	CW226	958	CZ115	992	DA390
	891	DE91	925	CW232	959	CZ122	993	DA391
	892	DE95	926	CW254	960	CZ186	994	DA414
	893	DE96	927	CW272	961	CZ214	995	DA428
10	894	CW420	928	CW280	962	CZ247	996	DA443
	895	CW424	929	CW313	963	CZ251	997	DA451
	896	CW457	930	CW314	964	CZ268	998	CW1458
	897	CW485	931	CW347	965	CZ270	999	CW1475
	898	CS383	932	CW354	966	CZ278	1000	CW1481
15	899	CS384	933	CW363	967	CZ291	1001	CW1506
	900	CS399	934	CW374	968	CZ320	1002	CW1510
	901	CS405	935	CW382	969	CZ326	1003	CW1543
	902	CS409	936	CW383	970	CZ362	1004	CW1550
	903	CS431	937	CW386	971	CW1414	1005	CW1552
20	904	CS438	938	CW388	972	CW1440	1006	CZ372
	905	CS454	939	CW512	973	CE209	1007	CZ374
	906	CS588	940	CW517	974	CE216	1008	CW902
	907	CS629	941	CW53	975	CE232	1009	CW922
	908	CS636	942	CW554	976	CE242	1010	CW924
25	909	CS637	943	CW585	977	CF193	1011	CW976
	910	CS638	944	CW618	978	CH776	1012	CW979
	911	CS645	945	CE197	979	CW1381	1013	CW984
	912	CS679	946	CW662	980	CW1389	1014	CW998
	913	CS682	947	CW675	981	CW1399	1015	CZ1
30	914	CS734	948	CW691	982	CZ653	1016	CW753
	915	CS743	949	CW707	983	CZ681	1017	CW759
	916	CS752	950	CW735	984	CZ711	1018	CW800
	917	CS756	951	CW762	985	CZ719	1019	CW891
	918	CS765	952	CW768	986	DA306	1020	CW960



	1021	CT80	1055	DC14	1089	DH1206	1123	DF478
	1022	DF1115	1056	CW1670	1090	DH1212	1124	DF483
	1023	DF1117	1057	CW1682	1091	DH1213	1125	DF494
	1024	DF1125	1058	DF814	1092	DH190	1126	DF499
5	1025	DF134	1059	DF821	1093	DI191	1127	DF7
	1026	DF14	1060	DF842	1094	DI207	1128	DF706
	1027	DF163	1061	DG1	1095	DI216	1129	DF713
	1028	DF174	1062	DG17	1096	DI243	1130	DF727
	1029	DF175	1063	DG174	1097	DI248	1131	DF737
10	1030	DF180	1064	DG256	1098	DI261	1132	DF756
	1031	DF185	1065	DG26	1099	DF1005	1133	DF757
	1032	DF201	1066	DG266	1100	DF1009	1134	DF762
	1033	DF202	1067	DG326	1101	DF1010	1135	DF776
	1034	DF203	1068	DG327	1102	DF102	1136	DF777
15	1035	DF206	1069	DG329	1103	DF1050	1137	DF780
	1036	DF219	1070	DG330	1104	DF1062	1138	DF783
	1037	DF230	1071	DG331	1105	DF1063	1139	DG12
	1038	DF232	1072	DG44	1106	DF1084	1140	DG121
	1039	DF239	1073	DG65	1107	DF153	1141	DG128
20	1040	DF244	1074	DG69	1108	DF218	1142	DG141
	1041	DF259	1075	DG7	1109	DF251	1143	DG149
	1042	DF266	1076	DG71	1110	DF280	1144	DH28
	1043	DF46	1077	DG76	1111	DF286	1145	DH303
	1044	DF65	1078	DG82	1112	DF316	1146	DH318
25	1045	DF69	1079	DH1086	1113	DF317	1147	DH322
	1046	DB145	1080	DH1098	1114	DF343	1148	DH340
	1047	DB150	1081	DH1135	1115	DF347	1149	DH371
	1048	DB159	1082	DH1145	1116	DF370	1150	DH40
	1049	DB174	1083	DH1153	1117	DF382	1151	DH401
30	1050	DB180	1084	DH1182	1118	DF396	1152	DH432
	1051	CY1	1085	DH1185	1119	DF428	1153	DH451
	1052	CY11	1086	DH1190	1120	DF453	1154	DH496
	1053	CY3	1087	DH1191	1121	DF457	1155	DH502
	1054	CY9	1088	DH1201	1122	DF460	1156	DH529

	1157	DH66	1191	DF915	1225	DH1357	1259	DI501
	1158	DF518	1192	DF948	1226	DH145	1260	DI504
	1159	DF521	1193	DF950	1227	DH999	1261	DK111
	1160	DF538	1194	DF956	1228	DI160	1262	DK113
5	1161	DF543	1195	DF966	1229	DI386	1263	DK120
	1162	DF545	1196	DF968	1230	DI391	1264	DK122
	1163	DF547	1197	DF971	1231	DI435	1265	DK126
	1164	DF568	1198	DF973	1232	DI448	1266	DK134
	1165	DF587	1199	DF979	1233	DI454	1267	DK136
10	1166	DF589	1200	DF984	1234	DJ109	1268	DK150
	1167	DF591	1201	DF989	1235	DJ146	1269	DK160
	1168	DF601	1202	DH1257	1236	DJ167	1270	DK170
	1169	DF606	1203	DH1308	1237	DF1065	1271	DK182
	1170	DF62	1204	DH1314	1238	DI387	1272	DK185
15	1171	DF620	1205	DI341	1239	DI393	1273	DK197
	1172	DF625	1206	DH1265	1240	DI403	1274	DK206
	1173	DF648	1207	DI349	1241	DI430	1275	DK219
	1174	DF657	1208	DI355	1242	DI438	1276	DK223
	1175	DF659	1209	DI362	1243	DJ2	1277	DK227
20	1176	DF661	1210	DI366	1244	DJ188	1278	DK229
	1177	DF662	1211	DI508	1245	DJ238	1279	DK230
	1178	DF670	1212	DI516	1246	DJ259	1280	DK243
	1179	DF674	1213	DI518	1247	DK64	1281	DK264
	1180	DF682	1214	DF1066	1248	DK70	1282	DK268
25	1181	DF688	1215	DF1069	1249	DK81	1283	DK31
	1182	DF810	1216	DG279	1250	DK84	1284	DK39
	1183	DF823	1217	DH1010	1251	DI462	1285	DK93
	1184	DF835	1218	DH1013	1252	DI466	1286	DL101
	1185	DF860	1219	DH1044	1253	DI474	1287	DL110
30	1186	DF877	1220	DH1045	1254	DI475	1288	DL116
	1187	DF883	1221	DH1073	1255	DI479	1289	DL132
	1188	DF895	1222	DH1078	1256	DI480	1290	DL63
	1189	DF909	1223	DH1340	1257	DI482	1291	DL82
	1190	DF910	1224	DH1349	1258	DI500	1292	DL95

	1293	DL99	1327	DL491	1361	DL547	1395	DO181
	1294	DJ332	1328	DL495	1362	DL550	1396	DO419
	1295	DJ362	1329	DL498	1363	DL551	1397	DO424
	1296	DK290	1330	DL504	1364	DL601	1398	DO440
5	1297	DK321	1331	DM118	1365	DL604	1399	DO447
	1298	DK324	1332	DM122	1366	DL605	1400	DO568
	1299	DK329	1333	DM126	1367	DL607	1401	DO575
	1300	DK357	1334	DM128	1368	DL608	1402	DO589
	1301	DK360	1335	DM130	1369	DL616	1403	DO610
10	1302	DL141	1336	DM147	1370	DL619	1404	DO715
	1303	DL146	1337	DM169	1371	DL620	1405	DO722
	1304	DL162	1338	DM26	1372	DL634	1406	DO737
	1305	DL163	1339	DM404	1373	DM194	1407	DO742
	1306	DL169	1340	DM406	1374	DM197	1408	DO755
15	1307	DL181	1341	DM407	1375	DM221	1409	DO765
	1308	DL185	1342	DM420	1376	DM248	1410	DO797
	1309	DL218	1343	DM425	1377	DM250	1411	DO836
	1310	DL220	1344	DM435	1378	DM262	1412	DO884
	1311	DL248	1345	DM445	1379	DM265	1413	DO896
20	1312	DL289	1346	DM449	1380	DM272	1414	CZ549
	1313	DL290	1347	DM459	1381	DM278	1415	CZ598
	1314	DL291	1348	DM462	1382	DM293	1416	DT431
	1315	DL316	1349	DM469	1383	DM303	1417	DT443
	1316	DL320	1350	DM482	1384	DM340	1418	DT446
25	1317	DL321	1351	DM6	1385	DM360	1419	DT449
	1318	DL425	1352	DM94	1386	DM365	1420	DT450
	1319	DL426	1353	DJ279	1387	DM522	1421	DT455
	1320	DL427	1354	DJ284	1388	DM533	1422	DT458
	1321	DL439	1355	DJ299	1389	DM542	1423	DN106
30	1322	DL440	1356	DJ319	1390	DM87	1424	DN153
	1323	DL444	1357	DJ323	1391	DN124	1425	DN176
	1324	DL457	1358	DL531	1392	DN144	1426	DT530
	1325	DL463	1359	DL535	1393	DN147	1427	DT534
	1326	DL466	1360	DL543	1394	DN167	1428	DT535

	1429	DT544	1463	DW1	1497	BK5
	1430	DT563	1464	DW389	1498	BK504
	1431	DT584	1465	DW398	1499	BK513
	1432	DT590	1466	DW654	1500	BK517
5	1433	DT596	1467	DW659		
	1434	DT597	1468	DW665		
	1435	DT598	1469	DW694		
	1436	DT640	1470	DW705		
	1437	DT655	1471	DW716		
10	1438	DT674	1472	DW749		
	1439	DT719	1473	DW761		
	1440	DT734	1474	DW765		
	1441	DT779	1475	DW771		
	1442	DT801	1476	DW78		
15	1443	DT802	1477	DW780		
	1444	DN696	1478	BK10		
	1445	DN697	1479	BK11		
	1446	DN704	1480	BK2		
	1447	DN710	1481	BK368		
20	1448	DN711	1482	BK373		
	1449	DN714	1483	BK374		
	1450	DN721	1484	BK375		
	1451	DN722	1485	BK384		
	1452	DN732	1486	BK402		
25	1453	DN740	1487	BK410		
	1454	DN746	1488	BK415		
	1455	DN747	1489	BK425		
	1456	DN753	1490	BK427		
	1457	DN756	1491	BK436		
30	1458	DN764	1492	BK445		
	1459	DN770	1493	BK455		
	1460	DN772	1494	BK458		
	1461	DN1120	1495	BK494		
	1462	DU372	1496	BK498		

The "Clone ID No." for a particular clone consists of one or two letters followed by a number. The letters designate the tissue source from which the sEST was isolated. Table 3 below lists the various sources which were run through applicants' signal sequence trap. Thus, the tissue source for a particular sEST sequence can be identified in Table 3 by the one and two letter designations used in the relevant "Clone ID No.". For example, a clone designated as "BA312" would have been isolated from a human placenta (26 yrs.) library (i.e., selection "BA") as indicated in Table 3.

As used herein, "polynucleotide" includes single- and double-stranded RNAs, DNAs and RNA:DNA hybrids.

As used herein a "secreted" protein is one which, when expressed in a suitable host cell, is transported across or through a membrane, including transport as a result of signal sequences in its amino acid sequence. "Secreted" proteins include without limitation proteins secreted wholly (e.g., soluble proteins) or partially (e.g., receptors) from the cell in which they are expressed. "Secreted" proteins also include without limitation proteins which are transported across the membrane of the endoplasmic reticulum.

Fragments of the proteins of the present invention which are capable of exhibiting biological activity are also encompassed by the present invention. Fragments of the protein may be in linear form or they may be cyclized using known methods, for example, as described in H.U. Saragovi, *et al.*, Bio/Technology 10, 773-778 (1992) and in R.S. McDowell, *et al.*, J. Amer. Chem. Soc. 114, 9245-9253 (1992), both of which are incorporated herein by reference. Such fragments may be fused to carrier molecules such as immunoglobulins for many purposes, including increasing the valency of protein binding sites. For example, fragments of the protein may be fused through "linker" sequences to the Fc portion of an immunoglobulin. For a bivalent form of the protein, such a fusion could be to the Fc portion of an IgG molecule. Other immunoglobulin isotypes may also be used to generate such fusions. For example, a protein - IgM fusion would generate a decavalent form of the protein of the invention.

The present invention also provides both full-length and mature forms of the disclosed proteins. The full-length form of the such proteins is identified in the sequence listing by translation of the nucleotide sequence of each disclosed clone. The mature form of such protein may be obtained by expression of the disclosed full-length polynucleotide (preferably those deposited with ATCC) in a suitable mammalian cell or other host cell. The sequence of the mature form of the protein may also be determinable from the amino acid sequence of the full-length form.

The present invention also provides genes corresponding to the cDNA sequences disclosed herein. The corresponding genes can be isolated in accordance with known methods using the sequence information disclosed herein. Such methods include the preparation of probes or primers from the disclosed sequence information for identification  
5 and/or amplification of genes in appropriate genomic libraries or other sources of genomic materials.

Where the protein of the present invention is membrane-bound (e.g., is a receptor), the present invention also provides for soluble forms of such protein. In such forms part or all of the intracellular and transmembrane domains of the protein are deleted such that  
10 the protein is fully secreted from the cell in which it is expressed. The intracellular and transmembrane domains of proteins of the invention can be identified in accordance with known techniques for determination of such domains from sequence information.

Species homologs of the disclosed polynucleotides and proteins are also provided by the present invention. Species homologs may be isolated and identified by making  
15 suitable probes or primers from the sequences provided herein and screening a suitable nucleic acid source from the desired species.

The invention also encompasses allelic variants of the disclosed polynucleotides or proteins; that is, naturally-occurring alternative forms of the isolated polynucleotide which also encode proteins which are identical, homologous or related to that encoded by the  
20 polynucleotides disclosed herein.

The invention also includes polynucleotides with sequences complementary to those of the polynucleotides disclosed herein.

The present invention also includes polynucleotides capable of hybridizing, preferably under reduced stringency conditions, more preferably under stringent conditions,  
25 most preferably under highly stringent conditions, to polynucleotides described herein. Examples of stringency conditions are shown in Table 1 below: highly stringent conditions are those that are at least as stringent as, for example, conditions A-F; stringent conditions are at least as stringent as, for example, conditions G-L; and reduced stringency conditions are at least as stringent as, for example, conditions M-R.

Table 1

	Stringency Condition	Polynucleotide Hybrid	Hybrid Length (bp) <sup>2</sup>	Hybridization Temperature and Buffer <sup>2</sup>	Wash Temperature and Buffer <sup>1</sup>
5	A	DNA:DNA	≥ 50	65°C; 1xSSC -or- 42°C; 1xSSC, 50% formamide	65°C; 0.3xSSC
	B	DNA:DNA	< 50	T <sub>B</sub> *; 1xSSC	T <sub>B</sub> *; 1xSSC
	C	DNA:RNA	≥ 50	67°C; 1xSSC -or- 45°C; 1xSSC, 50% formamide	67°C; 0.3xSSC
	D	DNA:RNA	< 50	T <sub>D</sub> *; 1xSSC	T <sub>D</sub> *; 1xSSC
	E	RNA:RNA	≥ 50	70°C; 1xSSC -or- 50°C; 1xSSC, 50% formamide	70°C; 0.3xSSC
10	F	RNA:RNA	< 50	T <sub>F</sub> *; 1xSSC	T <sub>F</sub> *; 1xSSC
	G	DNA:DNA	≥ 50	65°C; 4xSSC -or- 42°C; 4xSSC, 50% formamide	65°C; 1xSSC
	H	DNA:DNA	< 50	T <sub>H</sub> *; 4xSSC	T <sub>H</sub> *; 4xSSC
	I	DNA:RNA	≥ 50	67°C; 4xSSC -or- 45°C; 4xSSC, 50% formamide	67°C; 1xSSC
	J	DNA:RNA	< 50	T <sub>J</sub> *; 4xSSC	T <sub>J</sub> *; 4xSSC
15	K	RNA:RNA	≥ 50	70°C; 4xSSC -or- 50°C; 4xSSC, 50% formamide	67°C; 1xSSC
	L	RNA:RNA	< 50	T <sub>L</sub> *; 2xSSC	T <sub>L</sub> *; 2xSSC
	M	DNA:DNA	≥ 50	50°C; 4xSSC -or- 40°C; 6xSSC, 50% formamide	50°C; 2xSSC
	N	DNA:DNA	< 50	T <sub>N</sub> *; 6xSSC	T <sub>N</sub> *; 6xSSC
	O	DNA:RNA	≥ 50	55°C; 4xSSC -or- 42°C; 6xSSC, 50% formamide	55°C; 2xSSC
20	P	DNA:RNA	< 50	T <sub>P</sub> *; 6xSSC	T <sub>P</sub> *; 6xSSC
	Q	RNA:RNA	≥ 50	60°C; 4xSSC -or- 45°C; 6xSSC, 50% formamide	60°C; 2xSSC
	R	RNA:RNA	< 50	T <sub>R</sub> *; 4xSSC	T <sub>R</sub> *; 4xSSC

‡: The hybrid length is that anticipated for the hybridized region(s) of the hybridizing polynucleotides. When hybridizing a polynucleotide to a target polynucleotide of unknown sequence, the hybrid length is assumed to be that of the hybridizing polynucleotide. When polynucleotides of known sequence are hybridized, the hybrid length can be determined by aligning the sequences of the polynucleotides and identifying the region or regions of optimal sequence complementarity.

†: SSPE (1xSSPE is 0.15M NaCl, 10mM NaH<sub>2</sub>PO<sub>4</sub>, and 1.25mM EDTA, pH 7.4) can be substituted for SSC (1xSSC is 0.15M NaCl and 15mM sodium citrate) in the hybridization and wash buffers; washes are performed for 15 minutes after hybridization is complete.

\*T<sub>B</sub> - T<sub>R</sub>: The hybridization temperature for hybrids anticipated to be less than 50 base pairs in length should be 5-10°C less than the melting temperature (T<sub>m</sub>) of the hybrid, where T<sub>m</sub> is determined according to the following equations. For hybrids less than 18 base pairs in length,  $T_m(^{\circ}\text{C}) = 2(\# \text{ of A} + \text{T bases}) + 4(\# \text{ of G} + \text{C bases})$ . For hybrids between 18 and 49 base pairs in length,  $T_m(^{\circ}\text{C}) = 81.5 + 16.6(\log [\text{Na}^+]) + 0.41(\% \text{G} + \text{C}) - (600/\text{N})$ , where N is the number of bases in the hybrid, and [Na<sup>+</sup>] is the concentration of sodium ions in the hybridization buffer ([Na<sup>+</sup>] for 1xSSC = 0.165 M).

Additional examples of stringency conditions for polynucleotide hybridization are provided in Sambrook, J., E.F. Fritsch, and T. Maniatis, 1989, *Molecular Cloning: A Laboratory Manual*, Cold Spring Harbor Laboratory Press, Cold Spring Harbor, NY, chapters 9 and 11, and *Current Protocols in Molecular Biology*, 1995, F.M. Ausubel et al., eds., John Wiley & Sons, Inc., sections 2.10 and 6.3-6.4, incorporated herein by reference.

Preferably, such hybridizing polynucleotides have at least 70% sequence identity (more preferably, at least 80% identity; most preferably at least 90% or 95% identity) with the polynucleotide of the present invention to which they hybridize, where sequence identity is determined by comparing the sequences of the hybridizing polynucleotides when aligned so as to maximize overlap and identity while minimizing sequence gaps. The isolated polynucleotide encoding the protein of the invention may be operably linked to an expression control sequence such as the pMT2 or pED expression vectors disclosed in Kaufman *et al.*, *Nucleic Acids Res.* 19, 4485-4490 (1991), in order to produce the protein recombinantly. Many suitable expression control sequences are known in the art. General methods of expressing recombinant proteins are also known and are exemplified in R. Kaufman, *Methods in Enzymology* 185, 537-566 (1990). As defined herein "operably linked" means that the isolated polynucleotide of the invention and an expression control



sequence are situated within a vector or cell in such a way that the protein is expressed by a host cell which has been transformed (transfected) with the ligated polynucleotide/expression control sequence.

5 A number of types of cells may act as suitable host cells for expression of the protein. Mammalian host cells include, for example, monkey COS cells, Chinese Hamster Ovary (CHO) cells, human kidney 293 cells, human epidermal A431 cells, human Colo205 cells, 3T3 cells, CV-1 cells, other transformed primate cell lines, normal diploid cells, cell strains derived from in vitro culture of primary tissue, primary explants, HeLa cells, mouse L cells, BHK, HL-60, U937, HaK or Jurkat cells.

10 Alternatively, it may be possible to produce the protein in lower eukaryotes such as yeast or in prokaryotes such as bacteria. Potentially suitable yeast strains include *Saccharomyces cerevisiae*, *Schizosaccharomyces pombe*, *Kluyveromyces* strains, *Candida*, or any yeast strain capable of expressing heterologous proteins. Potentially suitable bacterial strains include *Escherichia coli*, *Bacillus subtilis*, *Salmonella typhimurium*, or any  
15 bacterial strain capable of expressing heterologous proteins. If the protein is made in yeast or bacteria, it may be necessary to modify the protein produced therein, for example by phosphorylation or glycosylation of the appropriate sites, in order to obtain the functional protein. Such covalent attachments may be accomplished using known chemical or enzymatic methods.

20 The protein may also be produced by operably linking the isolated polynucleotide of the invention to suitable control sequences in one or more insect expression vectors, and employing an insect expression system. Materials and methods for baculovirus/insect cell expression systems are commercially available in kit form from, e.g., Invitrogen, San Diego, California, U.S.A. (the MaxBac® kit), and such methods are well known in the art,  
25 as described in Summers and Smith, Texas Agricultural Experiment Station Bulletin No. 1555 (1987), incorporated herein by reference. As used herein, an insect cell capable of expressing a polynucleotide of the present invention is "transformed."

The protein of the invention may be prepared by culturing transformed host cells under culture conditions suitable to express the recombinant protein. The resulting  
30 expressed protein may then be purified from such culture (i.e., from culture medium or cell extracts) using known purification processes, such as gel filtration and ion exchange chromatography. The purification of the protein may also include an affinity column containing agents which will bind to the protein; one or more column steps over such affinity resins as concanavalin A-agarose, heparin-toyopearl® or Cibacrom blue 3GA

Sepharose®; one or more steps involving hydrophobic interaction chromatography using such resins as phenyl ether, butyl ether, or propyl ether; or immunoaffinity chromatography.

Alternatively, the protein of the invention may also be expressed in a form which will facilitate purification. For example, it may be expressed as a fusion protein, such as those of maltose binding protein (MBP), glutathione-S-transferase (GST) or thioredoxin (TRX). Kits for expression and purification of such fusion proteins are commercially available from New England BioLab (Beverly, MA), Pharmacia (Piscataway, NJ) and InVitrogen, respectively. The protein can also be tagged with an epitope and subsequently purified by using a specific antibody directed to such epitope. One such epitope ("Flag") is commercially available from Kodak (New Haven, CT).

Finally, one or more reverse-phase high performance liquid chromatography (RP-HPLC) steps employing hydrophobic RP-HPLC media, e.g., silica gel having pendant methyl or other aliphatic groups, can be employed to further purify the protein. Some or all of the foregoing purification steps, in various combinations, can also be employed to provide a substantially homogeneous isolated recombinant protein. The protein thus purified is substantially free of other mammalian proteins and is defined in accordance with the present invention as an "isolated protein."

The protein of the invention may also be expressed as a product of transgenic animals, e.g., as a component of the milk of transgenic cows, goats, pigs, or sheep which are characterized by somatic or germ cells containing a nucleotide sequence encoding the protein.

The protein may also be produced by known conventional chemical synthesis. Methods for constructing the proteins of the present invention by synthetic means are known to those skilled in the art. The synthetically-constructed protein sequences, by virtue of sharing primary, secondary or tertiary structural and/or conformational characteristics with proteins may possess biological properties in common therewith, including protein activity. Thus, they may be employed as biologically active or immunological substitutes for natural, purified proteins in screening of therapeutic compounds and in immunological processes for the development of antibodies.

The proteins provided herein also include proteins characterized by amino acid sequences similar to those of purified proteins but into which modification are naturally provided or deliberately engineered. For example, modifications in the peptide or DNA sequences can be made by those skilled in the art using known techniques. Modifications

of interest in the protein sequences may include the alteration, substitution, replacement, insertion or deletion of a selected amino acid residue in the coding sequence. For example, one or more of the cysteine residues may be deleted or replaced with another amino acid to alter the conformation of the molecule. Techniques for such alteration, substitution, replacement, insertion or deletion are well known to those skilled in the art (see, e.g., U.S. Patent No. 4,518,584). Preferably, such alteration, substitution, replacement, insertion or deletion retains the desired activity of the protein.

Other fragments and derivatives of the sequences of proteins which would be expected to retain protein activity in whole or in part and may thus be useful for screening or other immunological methodologies may also be easily made by those skilled in the art given the disclosures herein. Such modifications are believed to be encompassed by the present invention.

### USES AND BIOLOGICAL ACTIVITY

The polynucleotides and proteins of the present invention are expected to exhibit one or more of the uses or biological activities (including those associated with assays cited herein) identified below. Uses or activities described for proteins of the present invention  
5 may be provided by administration or use of such proteins or by administration or use of polynucleotides encoding such proteins (such as, for example, in gene therapies or vectors suitable for introduction of DNA).

#### Research Uses and Utilities

10 The polynucleotides provided by the present invention can be used by the research community for various purposes. The primary use of polynucleotides of the invention which are sESTs is as probes for the identification and isolation of full-length cDNAs and genomic DNA molecules which correspond (i.e., is a longer polynucleotide sequence of which substantially the entire sEST is a fragment in the case of a full-length cDNA, or  
15 which encodes the sEST in the case of a genomic DNA molecule) to such sESTs. Techniques for use of such sequences as probes for larger cDNAs or genomic molecules are well known in the art.

The polynucleotides can also be used to express recombinant protein for analysis, characterization or therapeutic use; as markers for tissues in which the corresponding  
20 protein is preferentially expressed (either constitutively or at a particular stage of tissue differentiation or development or in disease states); as molecular weight markers on Southern gels; as chromosome markers or tags (when labeled) to identify chromosomes or to map related gene positions; to compare with endogenous DNA sequences in patients to identify potential genetic disorders; as probes to hybridize and thus discover novel, related  
25 DNA sequences; as a source of information to derive PCR primers for genetic fingerprinting; as a probe to "subtract-out" known sequences in the process of discovering other novel polynucleotides; for selecting and making oligomers for attachment to a "gene chip" or other support, including for examination of expression patterns; to raise anti-protein antibodies using DNA immunization techniques; and as an antigen to raise anti-  
30 DNA antibodies or elicit another immune response. Where the polynucleotide encodes a protein which binds or potentially binds to another protein (such as, for example, in a receptor-ligand interaction), the polynucleotide can also be used in interaction trap assays (such as, for example, that described in Gyuris et al., Cell 75:791-803 (1993)) to identify

polynucleotides encoding the other protein with which binding occurs or to identify inhibitors of the binding interaction.

The proteins provided by the present invention can similarly be used in assay to determine biological activity, including in a panel of multiple proteins for high-throughput screening; to raise antibodies or to elicit another immune response; as a reagent (including the labeled reagent) in assays designed to quantitatively determine levels of the protein (or its receptor) in biological fluids; as markers for tissues in which the corresponding protein is preferentially expressed (either constitutively or at a particular stage of tissue differentiation or development or in a disease state); and, of course, to isolate correlative receptors or ligands. Where the protein binds or potentially binds to another protein (such as, for example, in a receptor-ligand interaction), the protein can be used to identify the other protein with which binding occurs or to identify inhibitors of the binding interaction. Proteins involved in these binding interactions can also be used to screen for peptide or small molecule inhibitors or agonists of the binding interaction.

Any or all of these research utilities are capable of being developed into reagent grade or kit format for commercialization as research products.

Methods for performing the uses listed above are well known to those skilled in the art. References disclosing such methods include without limitation "Molecular Cloning: A Laboratory Manual", 2d ed., Cold Spring Harbor Laboratory Press, Sambrook, J., E.F. Fritsch and T. Maniatis eds., 1989, and "Methods in Enzymology: Guide to Molecular Cloning Techniques", Academic Press, Berger, S.L. and A.R. Kimmel eds., 1987.

#### Nutritional Uses

Polynucleotides and proteins of the present invention can also be used as nutritional sources or supplements. Such uses include without limitation use as a protein or amino acid supplement, use as a carbon source, use as a nitrogen source and use as a source of carbohydrate. In such cases the protein or polynucleotide of the invention can be added to the feed of a particular organism or can be administered as a separate solid or liquid preparation, such as in the form of powder, pills, solutions, suspensions or capsules. In the case of microorganisms, the protein or polynucleotide of the invention can be added to the medium in or on which the microorganism is cultured.

#### Cytokine and Cell Proliferation/Differentiation Activity

A protein of the present invention may exhibit cytokine, cell proliferation (either inducing or inhibiting) or cell differentiation (either inducing or inhibiting) activity or may induce production of other cytokines in certain cell populations. Many protein factors discovered to date, including all known cytokines, have exhibited activity in one or more factor dependent cell proliferation assays, and hence the assays serve as a convenient confirmation of cytokine activity. The activity of a protein of the present invention is evidenced by any one of a number of routine factor dependent cell proliferation assays for cell lines including, without limitation, 32D, DA2, DA1G, T10, B9, B9/11, BaF3, MC9/G, M+ (preB M+), 2E8, RB5, DA1, 123, T1165, HT2, CTLL2, TF-1, Mo7e and CMK.

10       The activity of a protein of the invention may, among other means, be measured by the following methods:

Assays for T-cell or thymocyte proliferation include without limitation those described in: *Current Protocols in Immunology*, Ed by J. E. Coligan, A.M. Kruisbeek, D.H. Margulies, E.M. Shevach, W Strober, Pub. Greene Publishing Associates and Wiley-Interscience (Chapter 3, In Vitro assays for Mouse Lymphocyte Function 3.1-3.19; Chapter 7, Immunologic studies in Humans); Takai et al., *J. Immunol.* 137:3494-3500, 1986; Bertagnolli et al., *J. Immunol.* 145:1706-1712, 1990; Bertagnolli et al., *Cellular Immunology* 133:327-341, 1991; Bertagnolli, et al., *J. Immunol.* 149:3778-3783, 1992; Bowman et al., *J. Immunol.* 152: 1756-1761, 1994.

20       Assays for cytokine production and/or proliferation of spleen cells, lymph node cells or thymocytes include, without limitation, those described in: Polyclonal T cell stimulation, Kruisbeek, A.M. and Shevach, E.M. In *Current Protocols in Immunology*. J.E.e.a. Coligan eds. Vol 1 pp. 3.12.1-3.12.14, John Wiley and Sons, Toronto. 1994; and Measurement of mouse and human Interferon  $\gamma$ , Schreiber, R.D. In *Current Protocols in Immunology*. J.E.e.a. Coligan eds. Vol 1 pp. 6.8.1-6.8.8, John Wiley and Sons, Toronto. 1994.

30       Assays for proliferation and differentiation of hematopoietic and lymphopoietic cells include, without limitation, those described in: Measurement of Human and Murine Interleukin 2 and Interleukin 4, Bottomly, K., Davis, L.S. and Lipsky, P.E. In *Current Protocols in Immunology*. J.E.e.a. Coligan eds. Vol 1 pp. 6.3.1-6.3.12, John Wiley and Sons, Toronto. 1991; deVries et al., *J. Exp. Med.* 173:1205-1211, 1991; Moreau et al., *Nature* 336:690-692, 1988; Greenberger et al., *Proc. Natl. Acad. Sci. U.S.A.* 80:2931-2938, 1983; Measurement of mouse and human interleukin 6 - Nordan, R. In *Current Protocols in Immunology*. J.E.e.a. Coligan eds. Vol 1 pp. 6.6.1-6.6.5, John Wiley

- and Sons, Toronto. 1991; Smith et al., Proc. Natl. Acad. Sci. U.S.A. 83:1857-1861, 1986; Measurement of human Interleukin 11 - Bennett, F., Giannotti, J., Clark, S.C. and Turner, K. J. In *Current Protocols in Immunology*. J.E.e.a. Coligan eds. Vol 1 pp. 6.15.1 John Wiley and Sons, Toronto. 1991; Measurement of mouse and human Interleukin 9 -
- 5 Ciarletta, A., Giannotti, J., Clark, S.C. and Turner, K.J. In *Current Protocols in Immunology*. J.E.e.a. Coligan eds. Vol 1 pp. 6.13.1, John Wiley and Sons, Toronto. 1991.

- Assays for T-cell clone responses to antigens (which will identify, among others, proteins that affect APC-T cell interactions as well as direct T-cell effects by measuring proliferation and cytokine production) include, without limitation, those described in:
- 10 Current Protocols in Immunology, Ed by J. E. Coligan, A.M. Kruisbeek, D.H. Margulies, E.M. Shevach, W Strober, Pub. Greene Publishing Associates and Wiley-Interscience (Chapter 3, In Vitro assays for Mouse Lymphocyte Function; Chapter 6, Cytokines and their cellular receptors; Chapter 7, Immunologic studies in Humans); Weinberger et al., Proc. Natl. Acad. Sci. USA 77:6091-6095, 1980; Weinberger et al., Eur. J. Immun.
- 15 11:405-411, 1981; Takai et al., J. Immunol. 137:3494-3500, 1986; Takai et al., J. Immunol. 140:508-512, 1988.

#### Immune Stimulating or Suppressing Activity

- A protein of the present invention may also exhibit immune stimulating or immune
- 20 suppressing activity, including without limitation the activities for which assays are described herein. A protein may be useful in the treatment of various immune deficiencies and disorders (including severe combined immunodeficiency (SCID)), e.g., in regulating (up or down) growth and proliferation of T and/or B lymphocytes, as well as effecting the cytolytic activity of NK cells and other cell populations. These immune deficiencies may
- 25 be genetic or be caused by viral (e.g., HIV) as well as bacterial or fungal infections, or may result from autoimmune disorders. More specifically, infectious diseases caused by viral, bacterial, fungal or other infection may be treatable using a protein of the present invention, including infections by HIV, hepatitis viruses, herpesviruses, mycobacteria, Leishmania spp., malaria spp. and various fungal infections such as candidiasis. Of course,
- 30 in this regard, a protein of the present invention may also be useful where a boost to the immune system generally may be desirable, i.e., in the treatment of cancer.

Autoimmune disorders which may be treated using a protein of the present invention include, for example, connective tissue disease, multiple sclerosis, systemic lupus erythematosus, rheumatoid arthritis, autoimmune pulmonary inflammation, Guillain-Barre

syndrome, autoimmune thyroiditis, insulin dependent diabetes mellitis, myasthenia gravis, graft-versus-host disease and autoimmune inflammatory eye disease. Such a protein of the present invention may also be useful in the treatment of allergic reactions and conditions, such as asthma (particularly allergic asthma) or other respiratory problems. Other  
5 conditions, in which immune suppression is desired (including, for example, organ transplantation), may also be treatable using a protein of the present invention.

Using the proteins of the invention it may also be possible to immune responses, in a number of ways. Down regulation may be in the form of inhibiting or blocking an immune response already in progress or may involve preventing the induction of an immune  
10 response. The functions of activated T cells may be inhibited by suppressing T cell responses or by inducing specific tolerance in T cells, or both. Immunosuppression of T cell responses is generally an active, non-antigen-specific, process which requires continuous exposure of the T cells to the suppressive agent. Tolerance, which involves inducing non-responsiveness or anergy in T cells, is distinguishable from  
15 immunosuppression in that it is generally antigen-specific and persists after exposure to the tolerizing agent has ceased. Operationally, tolerance can be demonstrated by the lack of a T cell response upon reexposure to specific antigen in the absence of the tolerizing agent.

Down regulating or preventing one or more antigen functions (including without limitation B lymphocyte antigen functions (such as , for example, B7)), *e.g.*, preventing  
20 high level lymphokine synthesis by activated T cells, will be useful in situations of tissue, skin and organ transplantation and in graft-versus-host disease (GVHD). For example, blockage of T cell function should result in reduced tissue destruction in tissue transplantation. Typically, in tissue transplants, rejection of the transplant is initiated through its recognition as foreign by T cells, followed by an immune reaction that destroys  
25 the transplant. The administration of a molecule which inhibits or blocks interaction of a B7 lymphocyte antigen with its natural ligand(s) on immune cells (such as a soluble, monomeric form of a peptide having B7-2 activity alone or in conjunction with a monomeric form of a peptide having an activity of another B lymphocyte antigen (*e.g.*, B7-1, B7-3) or blocking antibody), prior to transplantation can lead to the binding of the  
30 molecule to the natural ligand(s) on the immune cells without transmitting the corresponding costimulatory signal. Blocking B lymphocyte antigen function in this matter prevents cytokine synthesis by immune cells, such as T cells, and thus acts as an immunosuppressant. Moreover, the lack of costimulation may also be sufficient to anergize the T cells, thereby inducing tolerance in a subject. Induction of long-term tolerance by B lymphocyte antigen-



blocking reagents may avoid the necessity of repeated administration of these blocking reagents. To achieve sufficient immunosuppression or tolerance in a subject, it may also be necessary to block the function of a combination of B lymphocyte antigens.

The efficacy of particular blocking reagents in preventing organ transplant rejection or GVHD can be assessed using animal models that are predictive of efficacy in humans. Examples of appropriate systems which can be used include allogeneic cardiac grafts in rats and xenogeneic pancreatic islet cell grafts in mice, both of which have been used to examine the immunosuppressive effects of CTLA4Ig fusion proteins *in vivo* as described in Lenschow *et al.*, Science 257:789-792 (1992) and Turka *et al.*, Proc. Natl. Acad. Sci USA, 89:11102-11105 (1992). In addition, murine models of GVHD (see Paul ed., Fundamental Immunology, Raven Press, New York, 1989, pp. 846-847) can be used to determine the effect of blocking B lymphocyte antigen function *in vivo* on the development of that disease.

Blocking antigen function may also be therapeutically useful for treating autoimmune diseases. Many autoimmune disorders are the result of inappropriate activation of T cells that are reactive against self tissue and which promote the production of cytokines and autoantibodies involved in the pathology of the diseases. Preventing the activation of autoreactive T cells may reduce or eliminate disease symptoms. Administration of reagents which block costimulation of T cells by disrupting receptor:ligand interactions of B lymphocyte antigens can be used to inhibit T cell activation and prevent production of autoantibodies or T cell-derived cytokines which may be involved in the disease process. Additionally, blocking reagents may induce antigen-specific tolerance of autoreactive T cells which could lead to long-term relief from the disease. The efficacy of blocking reagents in preventing or alleviating autoimmune disorders can be determined using a number of well-characterized animal models of human autoimmune diseases. Examples include murine experimental autoimmune encephalitis, systemic lupus erythematosus in MRL/lpr/lpr mice or NZB hybrid mice, murine autoimmune collagen arthritis, diabetes mellitus in NOD mice and BB rats, and murine experimental myasthenia gravis (see Paul ed., Fundamental Immunology, Raven Press, New York, 1989, pp. 840-856).

Upregulation of an antigen function (preferably a B lymphocyte antigen function), as a means of up regulating immune responses, may also be useful in therapy. Upregulation of immune responses may be in the form of enhancing an existing immune response or eliciting an initial immune response. For example, enhancing an immune response through stimulating B lymphocyte antigen function may be useful in cases of viral

infection. In addition, systemic viral diseases such as influenza, the common cold, and encephalitis might be alleviated by the administration of stimulatory forms of B lymphocyte antigens systemically.

Alternatively, anti-viral immune responses may be enhanced in an infected patient  
5 by removing T cells from the patient, costimulating the T cells *in vitro* with viral antigen-pulsed APCs either expressing a peptide of the present invention or together with a stimulatory form of a soluble peptide of the present invention and reintroducing the *in vitro* activated T cells into the patient. Another method of enhancing anti-viral immune responses would be to isolate infected cells from a patient, transfect them with a nucleic acid encoding  
10 a protein of the present invention as described herein such that the cells express all or a portion of the protein on their surface, and reintroduce the transfected cells into the patient. The infected cells would now be capable of delivering a costimulatory signal to, and thereby activate, T cells *in vivo*.

In another application, up regulation or enhancement of antigen function (preferably  
15 B lymphocyte antigen function) may be useful in the induction of tumor immunity. Tumor cells (*e.g.*, sarcoma, melanoma, lymphoma, leukemia, neuroblastoma, carcinoma) transfected with a nucleic acid encoding at least one peptide of the present invention can be administered to a subject to overcome tumor-specific tolerance in the subject. If desired, the tumor cell can be transfected to express a combination of peptides. For example, tumor  
20 cells obtained from a patient can be transfected *ex vivo* with an expression vector directing the expression of a peptide having B7-2-like activity alone, or in conjunction with a peptide having B7-1-like activity and/or B7-3-like activity. The transfected tumor cells are returned to the patient to result in expression of the peptides on the surface of the transfected cell. Alternatively, gene therapy techniques can be used to target a tumor cell for transfection  
25 *in vivo*.

The presence of the peptide of the present invention having the activity of a B lymphocyte antigen(s) on the surface of the tumor cell provides the necessary costimulation signal to T cells to induce a T cell mediated immune response against the transfected tumor cells. In addition, tumor cells which lack MHC class I or MHC class II molecules, or  
30 which fail to reexpress sufficient amounts of MHC class I or MHC class II molecules, can be transfected with nucleic acid encoding all or a portion of (*e.g.*, a cytoplasmic-domain truncated portion) of an MHC class I  $\alpha$  chain protein and  $\beta_2$  microglobulin protein or an MHC class II  $\alpha$  chain protein and an MHC class II  $\beta$  chain protein to thereby express MHC class I or MHC class II proteins on the cell surface. Expression of the appropriate class I

or class II MHC in conjunction with a peptide having the activity of a B lymphocyte antigen (e.g., B7-1, B7-2, B7-3) induces a T cell mediated immune response against the transfected tumor cell. Optionally, a gene encoding an antisense construct which blocks expression of an MHC class II associated protein, such as the invariant chain, can also be cotransfected with a DNA encoding a peptide having the activity of a B lymphocyte antigen to promote presentation of tumor associated antigens and induce tumor specific immunity. Thus, the induction of a T cell mediated immune response in a human subject may be sufficient to overcome tumor-specific tolerance in the subject.

The activity of a protein of the invention may, among other means, be measured by the following methods:

Suitable assays for thymocyte or splenocyte cytotoxicity include, without limitation, those described in: *Current Protocols in Immunology*, Ed by J. E. Coligan, A.M. Kruisbeek, D.H. Margulies, E.M. Shevach, W Strober, Pub. Greene Publishing Associates and Wiley-Interscience (Chapter 3, *In Vitro* assays for Mouse Lymphocyte Function 3.1-3.19; Chapter 7, *Immunologic studies in Humans*); Herrmann et al., *Proc. Natl. Acad. Sci. USA* 78:2488-2492, 1981; Herrmann et al., *J. Immunol.* 128:1968-1974, 1982; Handa et al., *J. Immunol.* 135:1564-1572, 1985; Takai et al., *J. Immunol.* 137:3494-3500, 1986; Takai et al., *J. Immunol.* 140:508-512, 1988; Herrmann et al., *Proc. Natl. Acad. Sci. USA* 78:2488-2492, 1981; Herrmann et al., *J. Immunol.* 128:1968-1974, 1982; Handa et al., *J. Immunol.* 135:1564-1572, 1985; Takai et al., *J. Immunol.* 137:3494-3500, 1986; Bowman et al., *J. Virology* 61:1992-1998; Takai et al., *J. Immunol.* 140:508-512, 1988; Bertagnolli et al., *Cellular Immunology* 133:327-341, 1991; Brown et al., *J. Immunol.* 153:3079-3092, 1994.

Assays for T-cell-dependent immunoglobulin responses and isotype switching (which will identify, among others, proteins that modulate T-cell dependent antibody responses and that affect Th1/Th2 profiles) include, without limitation, those described in: Maliszewski, *J. Immunol.* 144:3028-3033, 1990; and Assays for B cell function: *In vitro* antibody production, Mond, J.J. and Brunswick, M. In *Current Protocols in Immunology*. J.E.e.a. Coligan eds. Vol 1 pp. 3.8.1-3.8.16, John Wiley and Sons, Toronto. 1994.

Mixed lymphocyte reaction (MLR) assays (which will identify, among others, proteins that generate predominantly Th1 and CTL responses) include, without limitation, those described in: *Current Protocols in Immunology*, Ed by J. E. Coligan, A.M. Kruisbeek, D.H. Margulies, E.M. Shevach, W Strober, Pub. Greene Publishing Associates and Wiley-Interscience (Chapter 3, *In Vitro* assays for Mouse Lymphocyte Function 3.1-

3.19; Chapter 7, Immunologic studies in Humans); Takai et al., J. Immunol. 137:3494-3500, 1986; Takai et al., J. Immunol. 140:508-512, 1988; Bertagnolli et al., J. Immunol. 149:3778-3783, 1992.

Dendritic cell-dependent assays (which will identify, among others, proteins expressed by dendritic cells that activate naive T-cells) include, without limitation, those described in: Guery et al., J. Immunol. 134:536-544, 1995; Inaba et al., Journal of Experimental Medicine 173:549-559, 1991; Macatonia et al., Journal of Immunology 154:5071-5079, 1995; Porgador et al., Journal of Experimental Medicine 182:255-260, 1995; Nair et al., Journal of Virology 67:4062-4069, 1993; Huang et al., Science 264:961-965, 1994; Macatonia et al., Journal of Experimental Medicine 169:1255-1264, 1989; Bhardwaj et al., Journal of Clinical Investigation 94:797-807, 1994; and Inaba et al., Journal of Experimental Medicine 172:631-640, 1990.

Assays for lymphocyte survival/apoptosis (which will identify, among others, proteins that prevent apoptosis after superantigen induction and proteins that regulate lymphocyte homeostasis) include, without limitation, those described in: Darzynkiewicz et al., Cytometry 13:795-808, 1992; Gorczyca et al., Leukemia 7:659-670, 1993; Gorczyca et al., Cancer Research 53:1945-1951, 1993; Itoh et al., Cell 66:233-243, 1991; Zacharchuk, Journal of Immunology 145:4037-4045, 1990; Zamai et al., Cytometry 14:891-897, 1993; Gorczyca et al., International Journal of Oncology 1:639-648, 1992.

Assays for proteins that influence early steps of T-cell commitment and development include, without limitation, those described in: Antica et al., Blood 84:111-117, 1994; Fine et al., Cellular Immunology 155:111-122, 1994; Galy et al., Blood 85:2770-2778, 1995; Toki et al., Proc. Nat. Acad Sci. USA 88:7548-7551, 1991.

#### Hematopoiesis Regulating Activity

A protein of the present invention may be useful in regulation of hematopoiesis and, consequently, in the treatment of myeloid or lymphoid cell deficiencies. Even marginal biological activity in support of colony forming cells or of factor-dependent cell lines indicates involvement in regulating hematopoiesis, e.g. in supporting the growth and proliferation of erythroid progenitor cells alone or in combination with other cytokines, thereby indicating utility, for example, in treating various anemias or for use in conjunction with irradiation/chemotherapy to stimulate the production of erythroid precursors and/or erythroid cells; in supporting the growth and proliferation of myeloid cells such as granulocytes and monocytes/macrophages (i.e., traditional CSF activity) useful, for

example, in conjunction with chemotherapy to prevent or treat consequent myelosuppression; in supporting the growth and proliferation of megakaryocytes and consequently of platelets thereby allowing prevention or treatment of various platelet disorders such as thrombocytopenia, and generally for use in place of or complimentary to platelet transfusions; and/or in supporting the growth and proliferation of hematopoietic stem cells which are capable of maturing to any and all of the above-mentioned hematopoietic cells and therefore find therapeutic utility in various stem cell disorders (such as those usually treated with transplantation, including, without limitation, aplastic anemia and paroxysmal nocturnal hemoglobinuria), as well as in repopulating the stem cell compartment post irradiation/chemotherapy, either *in-vivo* or *ex-vivo* (i.e., in conjunction with bone marrow transplantation or with peripheral progenitor cell transplantation (homologous or heterologous)) as normal cells or genetically manipulated for gene therapy.

The activity of a protein of the invention may, among other means, be measured by the following methods:

Suitable assays for proliferation and differentiation of various hematopoietic lines are cited above.

Assays for embryonic stem cell differentiation (which will identify, among others, proteins that influence embryonic differentiation hematopoiesis) include, without limitation, those described in: Johansson et al. *Cellular Biology* 15:141-151, 1995; Keller et al., *Molecular and Cellular Biology* 13:473-486, 1993; McClanahan et al., *Blood* 81:2903-2915, 1993.

Assays for stem cell survival and differentiation (which will identify, among others, proteins that regulate lympho-hematopoiesis) include, without limitation, those described in: Methylcellulose colony forming assays, Freshney, M.G. In *Culture of Hematopoietic Cells*. R.I. Freshney, et al. eds. Vol pp. 265-268, Wiley-Liss, Inc., New York, NY. 1994; Hirayama et al., *Proc. Natl. Acad. Sci. USA* 89:5907-5911, 1992; Primitive hematopoietic colony forming cells with high proliferative potential, McNiece, I.K. and Briddell, R.A. In *Culture of Hematopoietic Cells*. R.I. Freshney, et al. eds. Vol pp. 23-39, Wiley-Liss, Inc., New York, NY. 1994; Neben et al., *Experimental Hematology* 22:353-359, 1994; Cobblestone area forming cell assay, Ploemacher, R.E. In *Culture of Hematopoietic Cells*. R.I. Freshney, et al. eds. Vol pp. 1-21, Wiley-Liss, Inc., New York, NY. 1994; Long term bone marrow cultures in the presence of stromal cells, Spooncer, E., Dexter, M. and Allen, T. In *Culture of Hematopoietic Cells*. R.I. Freshney, et al. eds. Vol pp. 163-179, Wiley-Liss, Inc., New York, NY. 1994; Long term culture initiating cell assay, Sutherland,

H.J. In *Culture of Hematopoietic Cells*. R.I. Freshney, *et al.* eds. Vol pp. 139-162, Wiley-Liss, Inc., New York, NY. 1994.

#### Tissue Growth Activity

5 A protein of the present invention also may have utility in compositions used for bone, cartilage, tendon, ligament and/or nerve tissue growth or regeneration, as well as for wound healing and tissue repair and replacement, and in the treatment of burns, incisions and ulcers.

A protein of the present invention, which induces cartilage and/or bone growth in  
10 circumstances where bone is not normally formed, has application in the healing of bone fractures and cartilage damage or defects in humans and other animals. Such a preparation employing a protein of the invention may have prophylactic use in closed as well as open fracture reduction and also in the improved fixation of artificial joints. *De novo* bone  
15 formation induced by an osteogenic agent contributes to the repair of congenital, trauma induced, or oncologic resection induced craniofacial defects, and also is useful in cosmetic plastic surgery.

A protein of this invention may also be used in the treatment of periodontal disease, and in other tooth repair processes. Such agents may provide an environment to attract  
bone-forming cells, stimulate growth of bone-forming cells or induce differentiation of  
20 progenitors of bone-forming cells. A protein of the invention may also be useful in the treatment of osteoporosis or osteoarthritis, such as through stimulation of bone and/or cartilage repair or by blocking inflammation or processes of tissue destruction (collagenase activity, osteoclast activity, etc.) mediated by inflammatory processes.

Another category of tissue regeneration activity that may be attributable to the  
25 protein of the present invention is tendon/ligament formation. A protein of the present invention, which induces tendon/ligament-like tissue or other tissue formation in circumstances where such tissue is not normally formed, has application in the healing of tendon or ligament tears, deformities and other tendon or ligament defects in humans and other animals. Such a preparation employing a tendon/ligament-like tissue inducing protein  
30 may have prophylactic use in preventing damage to tendon or ligament tissue, as well as use in the improved fixation of tendon or ligament to bone or other tissues, and in repairing defects to tendon or ligament tissue. *De novo* tendon/ligament-like tissue formation induced by a composition of the present invention contributes to the repair of congenital, trauma induced, or other tendon or ligament defects of other origin, and is also useful in cosmetic

plastic surgery for attachment or repair of tendons or ligaments. The compositions of the present invention may provide an environment to attract tendon- or ligament-forming cells, stimulate growth of tendon- or ligament-forming cells, induce differentiation of progenitors of tendon- or ligament-forming cells, or induce growth of tendon/ligament cells or  
5 progenitors *ex vivo* for return *in vivo* to effect tissue repair. The compositions of the invention may also be useful in the treatment of tendinitis, carpal tunnel syndrome and other tendon or ligament defects. The compositions may also include an appropriate matrix and/or sequestering agent as a carrier as is well known in the art.

The protein of the present invention may also be useful for proliferation of neural  
10 cells and for regeneration of nerve and brain tissue, *i.e.* for the treatment of central and peripheral nervous system diseases and neuropathies, as well as mechanical and traumatic disorders, which involve degeneration, death or trauma to neural cells or nerve tissue. More specifically, a protein may be used in the treatment of diseases of the peripheral nervous system, such as peripheral nerve injuries, peripheral neuropathy and localized  
15 neuropathies, and central nervous system diseases, such as Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic lateral sclerosis, and Shy-Drager syndrome. Further conditions which may be treated in accordance with the present invention include mechanical and traumatic disorders, such as spinal cord disorders, head trauma and cerebrovascular diseases such as stroke. Peripheral neuropathies resulting from  
20 chemotherapy or other medical therapies may also be treatable using a protein of the invention.

Proteins of the invention may also be useful to promote better or faster closure of non-healing wounds, including without limitation pressure ulcers, ulcers associated with vascular insufficiency, surgical and traumatic wounds, and the like.

25 It is expected that a protein of the present invention may also exhibit activity for generation or regeneration of other tissues, such as organs (including, for example, pancreas, liver, intestine, kidney, skin, endothelium), muscle (smooth, skeletal or cardiac) and vascular (including vascular endothelium) tissue, or for promoting the growth of cells comprising such tissues. Part of the desired effects may be by inhibition or modulation of  
30 fibrotic scarring to allow normal tissue to regenerate. A protein of the invention may also exhibit angiogenic activity.

A protein of the present invention may also be useful for gut protection or regeneration and treatment of lung or liver fibrosis, reperfusion injury in various tissues, and conditions resulting from systemic cytokine damage.

A protein of the present invention may also be useful for promoting or inhibiting differentiation of tissues described above from precursor tissues or cells; or for inhibiting the growth of tissues described above.

5 The activity of a protein of the invention may, among other means, be measured by the following methods:

Assays for tissue generation activity include, without limitation, those described in: International Patent Publication No. WO95/16035 (bone, cartilage, tendon); International Patent Publication No. WO95/05846 (nerve, neuronal); International Patent Publication No. WO91/07491 (skin, endothelium ).

10 Assays for wound healing activity include, without limitation, those described in: Winter, Epidermal Wound Healing, pps. 71-112 (Maibach, HI and Rovee, DT, eds.), Year Book Medical Publishers, Inc., Chicago, as modified by Eaglstein and Mertz, J. Invest. Dermatol 71:382-84 (1978).

15 Activin/Inhibin Activity

A protein of the present invention may also exhibit activin- or inhibin-related activities. Inhibins are characterized by their ability to inhibit the release of follicle stimulating hormone (FSH), while activins are characterized by their ability to stimulate the release of follicle stimulating hormone (FSH). Thus, a protein of the present invention,  
20 alone or in heterodimers with a member of the inhibin  $\alpha$  family, may be useful as a contraceptive based on the ability of inhibins to decrease fertility in female mammals and decrease spermatogenesis in male mammals. Administration of sufficient amounts of other inhibins can induce infertility in these mammals. Alternatively, the protein of the invention, as a homodimer or as a heterodimer with other protein subunits of the inhibin- $\beta$  group, may  
25 be useful as a fertility inducing therapeutic, based upon the ability of activin molecules in stimulating FSH release from cells of the anterior pituitary. See, for example, United States Patent 4,798,885. A protein of the invention may also be useful for advancement of the onset of fertility in sexually immature mammals, so as to increase the lifetime reproductive performance of domestic animals such as cows, sheep and pigs.

30 The activity of a protein of the invention may, among other means, be measured by the following methods:

Assays for activin/inhibin activity include, without limitation, those described in: Vale et al., Endocrinology 91:562-572, 1972; Ling et al., Nature 321:779-782, 1986; Vale



et al., Nature 321:776-779, 1986; Mason et al., Nature 318:659-663, 1985; Forage et al., Proc. Natl. Acad. Sci. USA 83:3091-3095, 1986.

#### Chemotactic/Chemokinetic Activity

5           A protein of the present invention may have chemotactic or chemokinetic activity (e.g., act as a chemokine) for mammalian cells, including, for example, monocytes, fibroblasts, neutrophils, T-cells, mast cells, eosinophils, epithelial and/or endothelial cells. Chemotactic and chemokinetic proteins can be used to mobilize or attract a desired cell population to a desired site of action. Chemotactic or chemokinetic proteins provide  
10 particular advantages in treatment of wounds and other trauma to tissues, as well as in treatment of localized infections. For example, attraction of lymphocytes, monocytes or neutrophils to tumors or sites of infection may result in improved immune responses against the tumor or infecting agent.

          A protein or peptide has chemotactic activity for a particular cell population if it can  
15 stimulate, directly or indirectly, the directed orientation or movement of such cell population. Preferably, the protein or peptide has the ability to directly stimulate directed movement of cells. Whether a particular protein has chemotactic activity for a population of cells can be readily determined by employing such protein or peptide in any known assay for cell chemotaxis.

20           The activity of a protein of the invention may, among other means, be measured by the following methods:

          Assays for chemotactic activity (which will identify proteins that induce or prevent chemotaxis) consist of assays that measure the ability of a protein to induce the migration of cells across a membrane as well as the ability of a protein to induce the adhesion of one  
25 cell population to another cell population. Suitable assays for movement and adhesion include, without limitation, those described in: Current Protocols in Immunology, Ed by J.E. Coligan, A.M. Kruisbeek, D.H. Margulies, E.M. Shevach, W. Strober, Pub. Greene Publishing Associates and Wiley-Interscience (Chapter 6.12, Measurement of alpha and beta Chemokines 6.12.1-6.12.28; Taub et al. J. Clin. Invest. 95:1370-1376, 1995; Lind et al. APMIS 103:140-146, 1995; Muller et al Eur. J. Immunol. 25: 1744-1748; Gruber et al.  
30 J. of Immunol. 152:5860-5867, 1994; Johnston et al. J. of Immunol. 153: 1762-1768, 1994.

#### Hemostatic and Thrombolytic Activity

A protein of the invention may also exhibit hemostatic or thrombolytic activity. As a result, such a protein is expected to be useful in treatment of various coagulation disorders (including hereditary disorders, such as hemophilias) or to enhance coagulation and other hemostatic events in treating wounds resulting from trauma, surgery or other causes. A  
5 protein of the invention may also be useful for dissolving or inhibiting formation of thromboses and for treatment and prevention of conditions resulting therefrom (such as, for example, infarction of cardiac and central nervous system vessels (e.g., stroke).

The activity of a protein of the invention may, among other means, be measured by the following methods:

10 Assay for hemostatic and thrombolytic activity include, without limitation, those described in: Linet et al., J. Clin. Pharmacol. 26:131-140, 1986; Burdick et al., Thrombosis Res. 45:413-419, 1987; Humphrey et al., Fibrinolysis 5:71-79 (1991); Schaub, Prostaglandins 35:467-474, 1988.

15 Receptor/Ligand Activity

A protein of the present invention may also demonstrate activity as receptors, receptor ligands or inhibitors or agonists of receptor/ligand interactions. Examples of such receptors and ligands include, without limitation, cytokine receptors and their ligands, receptor kinases and their ligands, receptor phosphatases and their ligands, receptors  
20 involved in cell-cell interactions and their ligands (including without limitation, cellular adhesion molecules (such as selectins, integrins and their ligands) and receptor/ligand pairs involved in antigen presentation, antigen recognition and development of cellular and humoral immune responses). Receptors and ligands are also useful for screening of potential peptide or small molecule inhibitors of the relevant receptor/ligand interaction.  
25 A protein of the present invention (including, without limitation, fragments of receptors and ligands) may themselves be useful as inhibitors of receptor/ligand interactions.

The activity of a protein of the invention may, among other means, be measured by the following methods:

Suitable assays for receptor-ligand activity include without limitation those  
30 described in: Current Protocols in Immunology, Ed by J.E. Coligan, A.M. Kruisbeek, D.H. Margulies, E.M. Shevach, W. Strober, Pub. Greene Publishing Associates and Wiley-Interscience (Chapter 7.28, Measurement of Cellular Adhesion under static conditions 7.28.1-7.28.22), Takai et al., Proc. Natl. Acad. Sci. USA 84:6864-6868, 1987; Bierer et al., J. Exp. Med. 168:1145-1156, 1988; Rosenstein et al., J. Exp. Med.

169:149-160 1989; Stoltenborget al., J. Immunol. Methods 175:59-68, 1994; Stitt et al., Cell 80:661-670, 1995.

#### Anti-Inflammatory Activity

5 Proteins of the present invention may also exhibit anti-inflammatory activity. The anti-inflammatory activity may be achieved by providing a stimulus to cells involved in the inflammatory response, by inhibiting or promoting cell-cell interactions (such as, for example, cell adhesion), by inhibiting or promoting chemotaxis of cells involved in the inflammatory process, inhibiting or promoting cell extravasation, or by stimulating or  
10 suppressing production of other factors which more directly inhibit or promote an inflammatory response. Proteins exhibiting such activities can be used to treat inflammatory conditions including chronic or acute conditions), including without limitation inflammation associated with infection (such as septic shock, sepsis or systemic inflammatory response syndrome (SIRS)), ischemia-reperfusion injury, endotoxin lethality,  
15 arthritis, complement-mediated hyperacute rejection, nephritis, cytokine or chemokine-induced lung injury, inflammatory bowel disease, Crohn's disease or resulting from over production of cytokines such as TNF or IL-1. Proteins of the invention may also be useful to treat anaphylaxis and hypersensitivity to an antigenic substance or material.

#### 20 Tumor Inhibition Activity

In addition to the activities described above for immunological treatment or prevention of tumors, a protein of the invention may exhibit other anti-tumor activities. A protein may inhibit tumor growth directly or indirectly (such as, for example, via ADCC). A protein may exhibit its tumor inhibitory activity by acting on tumor tissue or tumor  
25 precursor tissue, by inhibiting formation of tissues necessary to support tumor growth (such as, for example, by inhibiting angiogenesis), by causing production of other factors, agents or cell types which inhibit tumor growth, or by suppressing, eliminating or inhibiting factors, agents or cell types which promote tumor growth.

30

#### Other Activities

A protein of the invention may also exhibit one or more of the following additional activities or effects: inhibiting the growth, infection or function of, or killing, infectious agents, including, without limitation, bacteria, viruses, fungi and other parasites; effecting

(suppressing or enhancing) bodily characteristics, including, without limitation, height, weight, hair color, eye color, skin, fat to lean ratio or other tissue pigmentation, or organ or body part size or shape (such as, for example, breast augmentation or diminution, change in bone form or shape); effecting biorhythms or circadian cycles or rhythms; effecting the fertility of male or female subjects; effecting the metabolism, catabolism, anabolism, processing, utilization, storage or elimination of dietary fat, lipid, protein, carbohydrate, vitamins, minerals, cofactors or other nutritional factors or component(s); effecting behavioral characteristics, including, without limitation, appetite, libido, stress, cognition (including cognitive disorders), depression (including depressive disorders) and violent behaviors; providing analgesic effects or other pain reducing effects; promoting differentiation and growth of embryonic stem cells in lineages other than hematopoietic lineages; hormonal or endocrine activity; in the case of enzymes, correcting deficiencies of the enzyme and treating deficiency-related diseases; treatment of hyperproliferative disorders (such as, for example, psoriasis); immunoglobulin-like activity (such as, for example, the ability to bind antigens or complement); and the ability to act as an antigen in a vaccine composition to raise an immune response against such protein or another material or entity which is cross-reactive with such protein.

20

### ADMINISTRATION AND DOSING

A protein of the present invention (from whatever source derived, including without limitation from recombinant and non-recombinant sources) may be used in a pharmaceutical composition when combined with a pharmaceutically acceptable carrier. Such a composition may also contain (in addition to protein and a carrier) diluents, fillers, salts, buffers, stabilizers, solubilizers, and other materials well known in the art. The term "pharmaceutically acceptable" means a non-toxic material that does not interfere with the effectiveness of the biological activity of the active ingredient(s). The characteristics of the carrier will depend on the route of administration. The pharmaceutical composition of the invention may also contain cytokines, lymphokines, or other hematopoietic factors such as M-CSF, GM-CSF, TNF, IL-1, IL-2, IL-3, IL-4, IL-5, IL-6, IL-7, IL-8, IL-9, IL-10, IL-11, IL-12, IL-13, IL-14, IL-15, IFN, TNF0, TNF1, TNF2, G-CSF, Meg-CSF, thrombopoietin, stem cell factor, and erythropoietin. The pharmaceutical composition may further contain other agents which either enhance the activity of the protein or compliment its activity or use in treatment. Such additional factors and/or agents may be included in the pharmaceutical composition to produce a synergistic effect with protein of the invention, or to minimize side effects. Conversely, protein of the present invention may be included in formulations of the particular cytokine, lymphokine, other hematopoietic factor, thrombolytic or anti-thrombotic factor, or anti-inflammatory agent to minimize side effects of the cytokine, lymphokine, other hematopoietic factor, thrombolytic or anti-thrombotic factor, or anti-inflammatory agent.

A protein of the present invention may be active in multimers (e.g., heterodimers or homodimers) or complexes with itself or other proteins. As a result, pharmaceutical compositions of the invention may comprise a protein of the invention in such multimeric or complexed form.

The pharmaceutical composition of the invention may be in the form of a complex of the protein(s) of present invention along with protein or peptide antigens. The protein and/or peptide antigen will deliver a stimulatory signal to both B and T lymphocytes. B lymphocytes will respond to antigen through their surface immunoglobulin receptor. T lymphocytes will respond to antigen through the T cell receptor (TCR) following presentation of the antigen by MHC proteins. MHC and structurally related proteins including those encoded by class I and class II MHC genes on host cells will serve to present the peptide antigen(s) to T lymphocytes. The antigen components could also be supplied as purified MHC-peptide complexes alone or with co-stimulatory molecules that

can directly signal T cells. Alternatively antibodies able to bind surface immunoglobulin and other molecules on B cells as well as antibodies able to bind the TCR and other molecules on T cells can be combined with the pharmaceutical composition of the invention.

5           The pharmaceutical composition of the invention may be in the form of a liposome in which protein of the present invention is combined, in addition to other pharmaceutically acceptable carriers, with amphipathic agents such as lipids which exist in aggregated form as micelles, insoluble monolayers, liquid crystals, or lamellar layers in aqueous solution. Suitable lipids for liposomal formulation include, without limitation, monoglycerides, 10 diglycerides, sulfatides, lysolecithin, phospholipids, saponin, bile acids, and the like. Preparation of such liposomal formulations is within the level of skill in the art, as disclosed, for example, in U.S. Patent No. 4,235,871; U.S. Patent No. 4,501,728; U.S. Patent No. 4,837,028; and U.S. Patent No. 4,737,323, all of which are incorporated herein by reference.

15           As used herein, the term "therapeutically effective amount" means the total amount of each active component of the pharmaceutical composition or method that is sufficient to show a meaningful patient benefit, i.e., treatment, healing, prevention or amelioration of the relevant medical condition, or an increase in rate of treatment, healing, prevention or amelioration of such conditions. When applied to an individual active ingredient, 20 administered alone, the term refers to that ingredient alone. When applied to a combination, the term refers to combined amounts of the active ingredients that result in the therapeutic effect, whether administered in combination, serially or simultaneously.

In practicing the method of treatment or use of the present invention, a therapeutically effective amount of protein of the present invention is administered to a 25 mammal having a condition to be treated. Protein of the present invention may be administered in accordance with the method of the invention either alone or in combination with other therapies such as treatments employing cytokines, lymphokines or other hematopoietic factors. When co-administered with one or more cytokines, lymphokines or other hematopoietic factors, protein of the present invention may be administered either 30 simultaneously with the cytokine(s), lymphokine(s), other hematopoietic factor(s), thrombolytic or anti-thrombotic factors, or sequentially. If administered sequentially, the attending physician will decide on the appropriate sequence of administering protein of the present invention in combination with cytokine(s), lymphokine(s), other hematopoietic factor(s), thrombolytic or anti-thrombotic factors.

Administration of protein of the present invention used in the pharmaceutical composition or to practice the method of the present invention can be carried out in a variety of conventional ways, such as oral ingestion, inhalation, topical application or cutaneous, subcutaneous, intraperitoneal, parenteral or intravenous injection. Intravenous  
5 administration to the patient is preferred.

When a therapeutically effective amount of protein of the present invention is administered orally, protein of the present invention will be in the form of a tablet, capsule, powder, solution or elixir. When administered in tablet form, the pharmaceutical composition of the invention may additionally contain a solid carrier such as a gelatin or an  
10 adjuvant. The tablet, capsule, and powder contain from about 5 to 95% protein of the present invention, and preferably from about 25 to 90% protein of the present invention. When administered in liquid form, a liquid carrier such as water, petroleum, oils of animal or plant origin such as peanut oil, mineral oil, soybean oil, or sesame oil, or synthetic oils may be added. The liquid form of the pharmaceutical composition may further contain  
15 physiological saline solution, dextrose or other saccharide solution, or glycols such as ethylene glycol, propylene glycol or polyethylene glycol. When administered in liquid form, the pharmaceutical composition contains from about 0.5 to 90% by weight of protein of the present invention, and preferably from about 1 to 50% protein of the present invention.

When a therapeutically effective amount of protein of the present invention is administered by intravenous, cutaneous or subcutaneous injection, protein of the present invention will be in the form of a pyrogen-free, parenterally acceptable aqueous solution. The preparation of such parenterally acceptable protein solutions, having due regard to pH, isotonicity, stability, and the like, is within the skill in the art. A preferred pharmaceutical  
20 composition for intravenous, cutaneous, or subcutaneous injection should contain, in addition to protein of the present invention, an isotonic vehicle such as Sodium Chloride Injection, Ringer's Injection, Dextrose Injection, Dextrose and Sodium Chloride Injection, Lactated Ringer's Injection, or other vehicle as known in the art. The pharmaceutical composition of the present invention may also contain stabilizers, preservatives, buffers,  
25 antioxidants, or other additives known to those of skill in the art.  
30

The amount of protein of the present invention in the pharmaceutical composition of the present invention will depend upon the nature and severity of the condition being treated, and on the nature of prior treatments which the patient has undergone. Ultimately, the attending physician will decide the amount of protein of the present invention with

which to treat each individual patient. Initially, the attending physician will administer low doses of protein of the present invention and observe the patient's response. Larger doses of protein of the present invention may be administered until the optimal therapeutic effect is obtained for the patient, and at that point the dosage is not increased further. It is contemplated that the various pharmaceutical compositions used to practice the method of the present invention should contain about 0.01  $\mu$ g to about 100 mg (preferably about 0.1 mg to about 10 mg, more preferably about 0.1  $\mu$ g to about 1 mg) of protein of the present invention per kg body weight.

The duration of intravenous therapy using the pharmaceutical composition of the present invention will vary, depending on the severity of the disease being treated and the condition and potential idiosyncratic response of each individual patient. It is contemplated that the duration of each application of the protein of the present invention will be in the range of 12 to 24 hours of continuous intravenous administration. Ultimately the attending physician will decide on the appropriate duration of intravenous therapy using the pharmaceutical composition of the present invention.

Protein of the invention may also be used to immunize animals to obtain polyclonal and monoclonal antibodies which specifically react with the protein. Such antibodies may be obtained using either the entire protein or fragments thereof as an immunogen. The peptide immunogens additionally may contain a cysteine residue at the carboxyl terminus, and are conjugated to a hapten such as keyhole limpet hemocyanin (KLH). Methods for synthesizing such peptides are known in the art, for example, as in R.P. Merrifield, J. Amer.Chem.Soc. 85, 2149-2154 (1963); J.L. Krstenansky, *et al.*, FEBS Lett. 211, 10 (1987). Monoclonal antibodies binding to the protein of the invention may be useful diagnostic agents for the immunodetection of the protein. Neutralizing monoclonal antibodies binding to the protein may also be useful therapeutics for both conditions associated with the protein and also in the treatment of some forms of cancer where abnormal expression of the protein is involved. In the case of cancerous cells or leukemic cells, neutralizing monoclonal antibodies against the protein may be useful in detecting and preventing the metastatic spread of the cancerous cells, which may be mediated by the protein.

For compositions of the present invention which are useful for bone, cartilage, tendon or ligament regeneration, the therapeutic method includes administering the composition topically, systemically, or locally as an implant or device. When administered, the therapeutic composition for use in this invention is, of course, in a



pyrogen-free, physiologically acceptable form. Further, the composition may desirably be encapsulated or injected in a viscous form for delivery to the site of bone, cartilage or tissue damage. Topical administration may be suitable for wound healing and tissue repair. Therapeutically useful agents other than a protein of the invention which may also  
5 optionally be included in the composition as described above, may alternatively or additionally, be administered simultaneously or sequentially with the composition in the methods of the invention. Preferably for bone and/or cartilage formation, the composition would include a matrix capable of delivering the protein-containing composition to the site of bone and/or cartilage damage, providing a structure for the developing bone and  
10 cartilage and optimally capable of being resorbed into the body. Such matrices may be formed of materials presently in use for other implanted medical applications.

The choice of matrix material is based on biocompatibility, biodegradability, mechanical properties, cosmetic appearance and interface properties. The particular application of the compositions will define the appropriate formulation. Potential matrices  
15 for the compositions may be biodegradable and chemically defined calcium sulfate, tricalciumphosphate, hydroxyapatite, polylactic acid, polyglycolic acid and polyanhydrides. Other potential materials are biodegradable and biologically well-defined, such as bone or dermal collagen. Further matrices are comprised of pure proteins or extracellular matrix components. Other potential matrices are nonbiodegradable and chemically defined, such  
20 as sintered hydroxapatite, bioglass, aluminates, or other ceramics. Matrices may be comprised of combinations of any of the above mentioned types of material, such as polylactic acid and hydroxyapatite or collagen and tricalciumphosphate. The bioceramics may be altered in composition, such as in calcium-aluminate-phosphate and processing to alter pore size, particle size, particle shape, and biodegradability.

25 Presently preferred is a 50:50 (mole weight) copolymer of lactic acid and glycolic acid in the form of porous particles having diameters ranging from 150 to 800 microns. In some applications, it will be useful to utilize a sequestering agent, such as carboxymethyl cellulose or autologous blood clot, to prevent the protein compositions from disassociating from the matrix.

30 A preferred family of sequestering agents is cellulosic materials such as alkylcelluloses (including hydroxyalkylcelluloses), including methylcellulose, ethylcellulose, hydroxyethylcellulose, hydroxypropylcellulose, hydroxypropyl-methylcellulose, and carboxymethylcellulose, the most preferred being cationic salts of carboxymethylcellulose (CMC). Other preferred sequestering agents include hyaluronic acid, sodium alginate,

poly(ethylene glycol), polyoxyethylene oxide, carboxyvinyl polymer and poly(vinyl alcohol). The amount of sequestering agent useful herein is 0.5-20 wt%, preferably 1-10 wt% based on total formulation weight, which represents the amount necessary to prevent desorption of the protein from the polymer matrix and to provide appropriate handling of the composition, yet not so much that the progenitor cells are prevented from infiltrating the matrix, thereby providing the protein the opportunity to assist the osteogenic activity of the progenitor cells.

In further compositions, proteins of the invention may be combined with other agents beneficial to the treatment of the bone and/or cartilage defect, wound, or tissue in question. These agents include various growth factors such as epidermal growth factor (EGF), platelet derived growth factor (PDGF), transforming growth factors (TGF- $\alpha$  and TGF- $\beta$ ), and insulin-like growth factor (IGF).

The therapeutic compositions are also presently valuable for veterinary applications. Particularly domestic animals and thoroughbred horses, in addition to humans, are desired patients for such treatment with proteins of the present invention.

The dosage regimen of a protein-containing pharmaceutical composition to be used in tissue regeneration will be determined by the attending physician considering various factors which modify the action of the proteins, e.g., amount of tissue weight desired to be formed, the site of damage, the condition of the damaged tissue, the size of a wound, type of damaged tissue (e.g., bone), the patient's age, sex, and diet, the severity of any infection, time of administration and other clinical factors. The dosage may vary with the type of matrix used in the reconstitution and with inclusion of other proteins in the pharmaceutical composition. For example, the addition of other known growth factors, such as IGF I (insulin like growth factor I), to the final composition, may also effect the dosage. Progress can be monitored by periodic assessment of tissue/bone growth and/or repair, for example, X-rays, histomorphometric determinations and tetracycline labeling.

Polynucleotides of the present invention can also be used for gene therapy. Such polynucleotides can be introduced either *in vivo* or *ex vivo* into cells for expression in a mammalian subject. Polynucleotides of the invention may also be administered by other known methods for introduction of nucleic acid into a cell or organism (including, without limitation, in the form of viral vectors or naked DNA).

Cells may also be cultured *ex vivo* in the presence of proteins of the present invention in order to proliferate or to produce a desired effect on or activity in such cells. Treated cells can then be introduced *in vivo* for therapeutic purposes.

Patent and literature references cited herein are incorporated by reference as if fully set forth.

Table 3

Sel.	Species	Tissue	Cell Type
AA	Human	Kidney	19-23wks., M/F pool of 5
AB	Human	Fetal Lung	Fetal Lung
AC	Human	Placenta	26yrs., 1 specimen
AD	Murine	Embryo	Fetal ES cells
AE	Murine	Spleen	Adult spleen
AF	Murine	Fetal Brain	Fetal Brain
AG	Murine	Fetal Brain	Fetal Brain
AH	Murine	Fetal Thymus	Fetal Thymus
AI	Human	Blood	Adult PBMC/TH1or2
AJ	Human	Testes	10-61yrs., pool of 11
AK	Human	Kidney	19-23wks., M/F pool of 5
AL	Human	Neural	Adult Glioblastoma line TG-1
AM	Human	Kidney	19-23wks., M/F pool of 5
AN	Murine	Bone Marrow	Adult Stromal cell line FCM-4
AO	Murine	Thymus	Adult Subtr. Adult Thymus
AP	Human	Placenta	26yrs., 1 specimen
AQ	Human	Ovary	PA-1 Teratocarcinoma
AR	Human	Retina	16-75yrs., pool of 76
AS	Human	Brain	19-23wks., M/F pool of 5
AT	Human	Blood	Adult lymphocytes+dend. cells
AU	Human	Testes	10-61yrs., pool of 11
AV	Murine	Spleen	Adult spleen
AW	Human	Ovary	PA-1 Teratocarcinoma
AX	Human	Testes	10-61yrs., pool of 11
AY	Human	Retina	16-75yrs., pool of 76
AZ	Human	Colon	Caco-2 Adenocarcinoma
B	Human	Blood	PeripheralBloodMononuclearCell
BA	Human	Placenta	26yrs., 1 specimen
BB	Human	Blood	Adult PBMC/TH1or2
BC	Murine	Embryo	Fetal ES cells
BD	Human	Kidney	19-23wks., M/F pool of 5
BE	Human	Blood	Adult PBMC/TH1or2
BF	Human	Brain	19-23wks., M/F pool of 5
BG	Human	Brain	N/A
BH	Human	Ovary	PA-1 Teratocarcinoma
BI	Human	Kidney	19-23wks., M/F pool of 5
BJ	Human	Ovary	PA-1 Teratocarcinoma
BK	Human	Retina	16-75yrs., pool of 76
BL	Human	Testes	10-61yrs., pool of 11
BM	Human	Muscle	N/A
BN	Human	Placenta	26yrs., 1 specimen
BO	Human	Retina	16-75yrs., pool of 76
BP	Human	Kidney	19-23wks., M/F pool of 5
BQ	Human	Colon	Caco-2 Adenocarcinoma Caco2

BR	Human	Kidney	19-23wks., M/F pool of 5
BS	Human	Pituitary	Adult Pituitary
BT	Human	Blood	Adult PBMC
BU	Human	Placenta	26yrs., 1 specimen
BV	Human	Brain	N/A
BW	Human	Blood	Adult PBMC
BX	Human	Ovary	PA-1 Teratocarcinoma
BY	Human	Blood	Adult PBMC/TH1 or 2
BZ	Human	Kidney	19-23wks., M/F pool of 5
C	Human	Blood	Peripheral Blood Mononuclear Cell
CA	Murine	Embryo	Fetal ES cell embryoid bodies
CB	Human	Brain	19-23wks., M/F pool of 5
CC	Human	Brain	N/A
CD	Human	Brain	19-23wks., M/F pool of 5
CE	Human	Blood	Adult lymphocytes+dend. cells
CF	Human	Placenta	26yrs., 1 specimen
CG	Human	Testes	10-61yrs., pool of 11
CH	Human	Kidney	19-23wks., M/F pool of 5
CI	Human	Brain	N/A
CJ	Human	Brain	19-23wks., M/F pool of 5
CK	Human	Testes	10-61yrs., pool of 11
CL	Human	Retina	16-75yrs., pool of 76
CM	Human	Adult Lung	Adult Lung
CN	Human	Brain	19-23wks., M/F pool of 5
CO	Human	Brain	N/A
CP	Human	Salivary Gland	N/A
CQ	Human	Heart	13-73yrs., pool of 3
CR	Human	Testes	10-61yrs., pool of 11
CS	Human	Brain	19-23wks., M/F pool of 5
CT	Human	Brain	N/A
CU	Human	Pineal Gland	N/A
CV	Human	Mammary	Adult Human Mammary
CW	Human	Brain	19-23wks., M/F pool of 5
CY	Human	Pineal Gland	N/A
CZ	Human	Testes	10-61yrs., pool of 11
D	Human	Blood	Peripheral Blood Mononuclear Cell
DA	Human	Placenta	26yrs., 1 specimen
DB	Human	Prostate	Adult Prostate
DC	Human	Pineal Gland	Adult Pineal Gland
DD	Human	Testes	10-61yrs., pool of 11
DE	Human	Testes	Adult NCCIT TeratoCA
DF	Human	Brain	N/A
DG	Human	Placenta	26yrs., 1 specimen
DH	Human	Brain	19-23wks., M/F pool of 5
DI	Human	Testes	10-61yrs., pool of 11
DJ	Human	Placenta	26yrs., 1 specimen
DK	Human	Fetal Kidney2	Fetal Kidney

DL	Human	Brain	N/A
DM	Human	Brain	N/A
DN	Human	Brain	19-23wks., M/F pool of 5
DO	Human	Testes	10-61yrs., pool of 11
DP	Murine	Embryo	Fetal ES cell embryoid bodies
DQ	Human	Placenta	26yrs., 1 specimen
DR	Human	SalivaryGland	N/A
DT	Human	Brain	N/A
DU	Human	Brain	19-23wks., M/F pool of 5
DV	Human	Pineal Gland	Adult Pineal Gland
DW	Human	Brain	N/A
DX	Human	Testes	10-61yrs., pool of 11
DY	Human	Brain	N/A
DZ	Human	Testes	Adult NCCIT TeratoCA
E	Human	Blood	PeripheralBloodMononuclearCell
EA	Human	Brain	19-23wks., M/F pool of 5
EB	Human	Melanoma	Adult Melanoma
EC	Human	Brain	N/A
ED	Human	Placenta	26yrs., 1 specimen
EE	Human	Testes	10-61yrs., pool of 11
EF	Human	Liver	Adult Liver
EG	Human	Pancreas	Adult HPC-3 Ductal AdenoCA
EH	Human	Blood	PeripheralBloodMononuclearCell
EI	Human	Brain	19-23wks., M/F pool of 5
EJ	Human	Placenta	26yrs., 1 specimen
EK	Human	Brain	19-23wks., M/F pool of 5
EL	Human	Testes	10-61yrs., pool of 11
EM	Human	Fetal Kidney2	Fetal Kidney
EN	Human	Brain	19-23wks., M/F pool of 5
EO	Human	Adrenal Gland	Adult Adrenal Gland
EP	Human	Placenta	26yrs., 1 specimen
EQ	Human	Testes	10-61yrs., pool of 11
ER	Human	Brain	19-23wks., M/F pool of 5
ES	Human	Placenta	26yrs., 1 specimen
ET	Human	Testes	10-61yrs., pool of 11
EU	Human	Kidney	Adult Kidney
EV	Human	Stomach	Adult Stomach
EW	Human	Placenta	26yrs., 1 specimen
EX	Human	Testes	10-61yrs., pool of 11
EY	Human	Brain	19-23wks., M/F pool of 5
EZ	Human	Fetal Kidney2	Fetal Kidney
FA	Human	Brain	19-23wks., M/F pool of 5
FB	Human	Placenta	26yrs., 1 specimen
FC	Human	Testes	10-61yrs., pool of 11
FD	Human	SalivaryGland	N/A
FE	Human	Brain	N/A
FF	Human	Testes	Adult NCCIT TeratoCA

FG	Human	Brain	N/A
FH	Human	Brain	19-23wks., M/F pool of 5
FI	Human	Small Intest	Adult Small Intestine
FJ	Human	Lung CA	Adult Lung CA
FK	Human	Kidney	Adult Kidney
FM	Human	Brain	N/A
FN	Human	Brain	19-23wks., M/F pool of 5
FO	Human	Brain	N/A
FP	Human	Placenta	26yrs., 1 specimen
FQ	Human	Testes	10-61yrs., pool of 11
FR	Human	Placenta	26yrs., 1 specimen
FS	Human	Testes	10-61yrs., pool of 11
FT	Chicken	Fetal Lung	Fetal Lung
FU	Chicken	Limb Bud	Fetal St. 23 Limb Bud
FV	Human	Testes	Adult NCCIT TeratoCA
FW	Human	Testes	Adult NCCIT TeratoCA
FX	Human	Brain	19-23wks., M/F pool of 5
FY	Human	Placenta	26yrs., 1 specimen
FZ	Human	Placenta	26yrs., 1 specimen
G	Human	Blood	PeripheralBloodMononuclearCell
GA	Human	Testes	10-61yrs., pool of 11
GB	Human	Placenta	26yrs., 1 specimen
GC	Human	Testes	10-61yrs., pool of 11
GD	Human	Placenta	26yrs., 1 specimen
GE	Human	Brain	N/A
GF	Human	Brain	19-23wks., M/F pool of 5
GG	Human	Fetal Kidney2	Fetal Kidney
GH	Human	Placenta	26yrs., 1 specimen
GI	Human	Retinoblastoma	Adult Retinoblastoma Y79
GJ	Murine	Spleen	Adult Spleen
GK	Human	Fetal Kidney2	Fetal Kidney
GL	Murine	Lymph Node	Adult Lymph Node
GM	Human	Uterus	N/A
GN	Human	Blood	PeripheralBloodMononuclearCell
GO	Human	Adrenal Gland	Adult Adrenal Gland
GP	Human	Ovary	PA-1 Teratocarcinoma
GQ	Human	Pineal Gland	N/A
GR	Human	Pancreas	Adult HPC-3 Ductal AdenoCA
GS	Human	Retina	16-75yrs., pool of 76
GT	Human	Brain	N/A
GU	Human	Fetal Kidney2	Fetal Kidney
GV	Rat	Retina	Newborn Retina
GW	Chicken	Limb Bud	Fetal St.26 Limb Bud
GX	Human	Brain	N/A
GY	Human	Testes	10-61yrs., pool of 11
GZ	Human	Brain	19-23wks., M/F pool of 5
H	Human	Blood	PeripheralBloodMononuclearCell

HA	Human	Testes	Adult NCCIT TeratoCA
HB	Human	Fetal Kidney2	Fetal Kidney
HC	Human	Brain	19-23wks., M/F pool of 5
HD	Human	Brain	N/A
HE	Human	Testes	10-61yrs., pool of 11
HF	Human	Brain	19-23wks., M/F pool of 5
HG	Human	Fetal Kidney2	Fetal Kidney
HH	Human	Brain	N/A
HI	Human	Testes	10-61yrs., pool of 11
HJ	Human	Brain	N/A
HK	Human	Brain	19-23wks., M/F pool of 5
HL	Human	Fetal Kidney2	Fetal Kidney
HM	Human	Testes	Adult NCCIT TeratoCA
HN	Human	Fetal Kidney2	Fetal Kidney
HO	Human	Brain	N/A
HP	Human	Brain	19-23wks., M/F pool of 5
HQ	Human	Testes	10-61yrs., pool of 11
HR	Human	Brain	N/A
HS	Human	Brain	N/A
HT	Human	Brain	19-23wks., M/F pool of 5
HU	Human	Fetal Kidney2	Fetal Kidney
HV	Human	Testes	10-61yrs., pool of 11
HW	Human	Brain	N/A
HX	Human	Brain Hippoca	Adult Brain Hippocampus
HY	Human	Trachea	Adult Trachea
HZ	Human	Brain Thalamus	Adult Brain Thalamus
I	Human	Blood	PeripheralBloodMononuclearCell
IA	Human	Thyroid	Adult Thyroid
IB	Human	Embryonal CA	Fetal NT2-D1
IC	Human	WER1-Rb1 line	Adult Retinoblastoma
ID	Human	Muscle	N/A
IE	Human	Brain	19-23wks., M/F pool of 5
IF	Human	Uterus	N/A
IG	Human	Testes	10-61yrs., pool of 11
IH	Human	Muscle	N/A
II	Human	Brain	N/A
IJ	Human	Blood	PeripheralBloodMononuclearCell
IK	Human	Retinoblastoma	Adult Retinoblastoma Y79
IL	Human	Retina	16-75yrs., pool of 76
IM	Human	Various	Various
IN	Human	Prostate	Adult Prostate
IO	Human	Brain	19-23wks., M/F pool of 5
IP	Human	Fetal Kidney2	Fetal Kidney
IQ	Human	Prostate	Adult Prostate
IR	Human	Brain Hippoca	Adult Brain Hippocampus
IS	Human	Trachea	Adult Trachea
IT	Human	Brain Thalamu	Adult Brain Thalamus



## SEQUENCE LISTING

## (1) GENERAL INFORMATION:

- (i) APPLICANT: Jacobs, Kenneth  
McCoy, John  
LaVallie, Edward  
Racie, Lisa  
Merberg, David  
Treacy, Maurice  
Spaulding, Vikki  
Agostino, Michael
- (ii) TITLE OF INVENTION: SECRETED, EXPRESSED SEQUENCE TAGS
- (iii) NUMBER OF SEQUENCES: 1500
- (iv) CORRESPONDENCE ADDRESS
  - (A) ADDRESSE: Genetics Institute, Inc.
  - (B) STREET: 87 CambridgePark Drive
  - (C) CITY: Cambridge
  - (D) STATE: Massachusetts
  - (E) COUNTRY: U.S.A
  - (F) ZIP: 02140
- (v) COMPUTER READABLE FORM:
  - (A) MEDIUM TYPE: Floppy Disk
  - (B) COMPUTER: IBM PC Compatible
  - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
  - (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
- (vi) CURRENT APPLICATION DATA:
  - (A) APPLICATION NUMBER:
  - (B) FILING DATE:
  - (C) CLASSIFICATION:
- (vii) ATTORNEY/AGENT INFORMATION:
  - (A) NAME: Brown, Scott A.
  - (B) REGISTRATION NUMBER: 32,724
- (ix) TELECOMMUNICATION INFORMATION:
  - (A) TELEPHONE: (617) 498-8224
  - (B) TELEFAX: (617) 876-5851

## (2) INFORMATION FOR SEQ ID NO:1:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 320 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: cDNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

```

GAATTCGGCC TTCATGGCCT AAGTGTTTAA ATTATAAGCT GGTGAAGTGA AATAACACAA      60
ATCAAGCTCA CCAATTTTAA TACTCAGCTG TTGATAAACA AACTGAAGA GTGACATTTA      120
AATTTGAATT ATCTTCTTG AAGTAGCATT GCAGCACTT TGAATGACTT CCAAAAAGGCT      180
GATCATAAAA ATCACTTCAA TCATTTTCAA ATTTTACTTT AGCAGCAATG AAGTTATTGT      240

```

GTATGACTCA GATGAACCTT CTGCTCTGTC TTGGAGTTAT TATGGTCATT TCATTTTCTG 300  
CAACCTGGGA AAACCTCGAG 320

(2) INFORMATION FOR SEQ ID NO:2:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 357 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

GAATTCGGCC TTCATGGCCT ACGAGTGGAT CTGGTTGAGA GGAAAGCAGC TAAAAATACA 60  
GGAGATGAAA GGGATCATAA CGAACATAAT GAACCATGTT CATTATGGTT CGTGGGGAGG 120  
CAGGAAAGCA CAGTATCCAG GGCATAGGCA GAAGAGCTGT CTTTCACGGG AGGAGGGGAA 180  
CATATTCTAC TGAATAAGC AAGGGCGGGG TAAGTACGGA TCGGGTACTT TGGGAACATAT 240  
GACGGTAGGG AGTTCAGGAA GTTGCTGCCT GAAGGCATAA AGGTTTTTTT TTTTTTTTTT 300  
TTTTTTTGCC AATTGGTCCA GTACCCTCCT TCTGTGGCCC CCATCTCCAG TCTCGAG 357

(2) INFORMATION FOR SEQ ID NO:3:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 249 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

GAATCTTTTA TATAATTTGG ATACCTACTC ATTGTCAGTT GTATGCTTTG CAAATATCTT 60  
TCCTGACCCT TACTTACCTT TCACTCTTA ATGGTATCTT TGATGAATCA AAAATTTTTC 120  
TTTTTTTGTG GTTTTTTGAG ACAGAGTCTT AACTCTGTCA CCCAGGCTGG AGTGCAGTGC 180  
ATGAACATGG CTCACTGCAG CCTCAACTTC TTGGACTCAA GCAATCCTCC TGCCTCAGAA 240  
CCTCTCGAG 249

(2) INFORMATION FOR SEQ ID NO:4:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 262 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

GAATTCGGCC TTCATGGCCT AGACCTGCCT CTAGCTCCTT TCCTTCTACT CTCCTGCTCA 60  
GACCATTAGT AGGTACTTTG TTAAATAAAA AACTAGATTA ACATCAATAT TACTCCAATT 120  
TGGTATCTTT TACACTATGT ATTATACCTA CTTTCTTTT ATTTCATTTA CAAATAGTTT 180  
AAATTACTTT ATCAACCAGC TGTATTGTTT CCCTCTTGTA AAAGTACCAT CAAGTGGGGA 240  
AAATGTATGT GGCAGTCTCG AG 262

(2) INFORMATION FOR SEQ ID NO:5:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 250 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

```

GAATTCGGCC TTCATGGCCT AATAACTTAC CCAGTCACGA ATATTTCTTC ATAGCAGCAT      60
CAGAGTGGAC TAATACGATT ATAATTATCA TCACCTTTTG ACTGACCAAT TGATTTACAG      120
TATTGAGTTC AATCTGTTTT TTTAAAAAAT ATCTTCTAAA TATCAGGTGC TGTATTAGAT      180
GTGGGGTACA AAAATGTATT TTCATTTACT CACTAATTA CTTAAAATTT ATTTATTGAG      240
GTACCTCGAG                                         250

```

## (2) INFORMATION FOR SEQ ID NO:6:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 276 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

```

GAATTCGGCC TTCATGGCCT AGGTGCTGGA AGTAAGCTGT GTGAACAAAT GAGACGATTC      60
CCCTTTCTAA TGAGTTTATA TGCAATGTGG TATCTTTACC GATACATGCT CTGTCAGAAA      120
GAAGCAGCCC ACTTCTGTCC AATAGCCAAT CCGGCTTCAG GAGCAGCAGG AGAGGCTTCG      180
GGAACGGGAG AAGAGGCTTC AGCAGCTGGC CGAGCCACAG AGCGACTTGG AGGAGCTGCA      240
CGAGAACAAG AGCGCACTGC AGTTGGAGAG CTCGAG                                         276

```

## (2) INFORMATION FOR SEQ ID NO:7:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 284 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

```

GAATTCGGCC TTCATGGCCT ACTCATTCCA AAATAAAAAA AAAAATTTC CATGATCTTA      60
TCTAGCTTCT CTAGCAGTAC TTGTATGATT TCACCTTTCT TTCTTTATTC TTTCTTCCA      120
TATTTTTTTT TTTTGAGACA GGGTCTCACT CTATTGTCCA GGCTAGAGTG CAGTAGTTTG      180
ATCATGACTC ACTCTAACCT GGACCTCCGG GGCCTAAGTA ATCTTCCCAC CTCAGCCTCT      240
CAAGTAGCTG GGA CTACAGG GATGTACCAC CATGCCTGGC TAAG                                         284

```

## (2) INFORMATION FOR SEQ ID NO:8:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 394 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

```
GTTGAATTCT AGACCTGCCT CGAGGACGCC AGGGAAGTGA GTTGAAAATC TGAAAATGCG      60
GCCATGGA CTGTTCTGGC GTTGGATTAT GCTCATTCTT TTTGCCTGGG GGACCTTGCT      120
GTTTTATATA GGTGGTCACT TGGTACGAGA TAATGACCAT CCTGATCACT CTAGCCGAGA      180
ACTGTCCAAG ATTCTGGCAA AGCTTGAACG CTTAAAACAG CAGAATGAAG ACTTGAGGCG      240
AATGGCCGAA TCTCTCCGGA TACCAGAAGG CCCTATTGAT CAGGGGCCAG CTATAGGAAG      300
AGTGCGCGTT TTAGAAGAGC AGCTTGTTAA GGCCAAAGAA CAGATTGAAA ATTACAAGAA      360
ACAGACCAGA AATGGTCTGG GGAAGGATCT CGAG                                394
```

(2) INFORMATION FOR SEQ ID NO:9:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 357 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

```
GCTGTGATGA AAATGCTTTA TGCTTCAACA CTGTTGGAGG ACACAACTGT GTTTGCAAGC      60
CGGGCTATAC AGGGAATGGA ACGACATGCA AAGCATTTTG CAAAGATGGC TGTAGGAATG      120
GAGGAGCCTG TATTGCCGCT AATGTGTGTG CCTGCCACCA AGGCTTCACT GGACCCAGCT      180
GTGAAACGGA CATTGATGAA TGCTCTGATG GTTTTGTTC AATGTGACAGT CGTGCTAATT      240
GCATTAACCT GCCTGGATGG TACCACTGTG AGTGCAGAGA TGGCTACCAT GACAATGGGA      300
TGTTTTTACC AAGTGGAGAA TCGTGTGAAG ATATTGATGA GTGTGGGACC ACTCGAG       357
```

(2) INFORMATION FOR SEQ ID NO:10:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 280 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:

```
GAATTCGGCC TTCATGGCCT ATTTCCGATC TATGTATCTG TACTCATACA GCCTCATCGG      60
GCTAAACAGC CTTCTTTTCA GAACAGTAGA TCACTCAACT GGGTTTTC AA GTGACTGTTT      120
ACCTTTCAAG GCTGGCTTTA TAGGTCTTGC CTCACGTGAT CCAGCAATCC AAACCTTACC      180
CTATCCCACT CAGGACTGCA CACCTCATAT TGAAAGACAT ACCTTAGAAC CAGACTCCCC      240
AAACCTTACA AATATCCAC CTTGACTCC CTTTCTCGAG                                280
```

(2) INFORMATION FOR SEQ ID NO:11:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 437 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:

GAATTCTAGA	CCTGCCTCGA	GCGCCACACA	GTGACTGCCG	GGTAAAGTTG	TGGAATTACG	60
TCCCTGGACT	CACCCCTGTC	CTTCCTCGCC	GAGTCCTGGC	CATAAAGGGC	CGCGCCACCA	120
CCCTGCCCTG	ACCCCTCCCA	ACTCTCCCTG	TCTCCTCTTT	CATTCTTCCC	CTCTTTCCTT	180
TTCCCTCTCT	TTCCCACTT	CGATATGAGC	TGCTTCTTAA	CGGTATGAGA	TTATTTNACT	240
CCTTCTTCTT	CCTTTCCCTT	CCTGTCCTGC	CTGGCCTAGA	GAGGTGCCCT	GCCTGTCCCT	300
CCTGCACCCA	CCGTCCTTTT	CCAAGCATGA	ACAGTGGGAC	AGGCCCCAGG	AGATGGGTGC	360
CAGGGAGCAG	AAGGGGGAGC	CTTCAGGCCT	GGACAAAACG	AAACACCCCC	CCAAAAAAG	420
NAAACCCACG	ACTCGAG					437

## (2) INFORMATION FOR SEQ ID NO:12:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 264 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:

GTTTCTTCTA	AGTAGATCTT	CCTTCCCAT	TAAACTAGGT	TTTCTACTGC	AAGATATTTT	60
GTGCATTGCT	GTTTTAAACC	CTTTTAACAG	CGAATCATAG	CAGTCTAAGA	AGTCTTCTGA	120
ACCATCCTGG	ACTCTTGGTG	TGATTTTAAA	TTGTGTCTAC	AAGTTCTCTG	ACATTCTTCC	180
CACCAAGAGG	TAGAGTCTGT	TTCCCTCCC	TTTGAACCTA	GGTAGGCCTT	TGTTACTGCC	240
TTGATGAATA	CAATGAGACT	CGAG				264

## (2) INFORMATION FOR SEQ ID NO:13:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 267 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:

GATTTTTTAC	CCAAAGCTCT	GGAATTGTAC	ATTTATTTTT	TAAAACTCAA	AGAGGGAAAG	60
AGCCTTGAT	CATATGTGAA	CATTGTATCA	TAGGTAATGT	TGTACAGACC	CTTTTATACA	120
GTGATCTGTC	TTGTTCCCTGC	AGCAAAAATC	CTCTATGGAC	ATAGGAGGTG	CTGTGTCCCA	180
TGCCCTCTTG	CCCTGACAGT	GTCCCATGGG	CCCCCTCTG	CTCCCTGCCC	CCTCCCTGCT	240
ACTGCTGATG	CACTCCCCC	CCTCGAG				267

## (2) INFORMATION FOR SEQ ID NO:14:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 325 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:

GAATTCGGCC	TTCATGGCCT	ATTTTTTATT	TGTTTTGTTT	TGTTTTGTGG	GGATGGGGTT	60
TTGCCGTGTT	GCCCAGGCTG	GTTTCGAATT	TTTGGGCTTA	TGCAATCCAC	CCACCTTGGC	120
CTCCCAAAGT	GCAGGGATTA	CAGGCATGAG	CCATCTTGCT	GGGCCACCTT	TTTCTTCTCT	180
TTTAACAAAT	TCAGCAATTT	TTCAGTCCCA	GAAATCTGTA	AATACATTTT	TTGTGGAAAA	240
ATACAATGGG	AATGGCATCA	AAAGATGGTT	TCTATTAGGA	ATGGGAACAG	GTAACAGTTT	300
TCCCTGCCAC	CTCAACAATC	TCGAG				325

## (2) INFORMATION FOR SEQ ID NO:15:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 335 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:

GGGCTGGCAG	GCGGGCCAAA	GGTAATGAAG	CAAAGAGAGA	GGGAAAAGAC	GTGTGAAAAT	60
TGCAGAGGGG	GTGACCGAGG	GAAACACGTG	AGCGTGATAA	TGACAGAAAA	ACCACGGAAG	120
GAGCAAACCT	GGGCAGGGGG	TGGGAAACCC	GGGCCGTTC	CAGGGAGCAC	AGGCAGACTC	180
AGAGGTAACA	CTCAAAGCA	ACAACAGAAG	CAAGGAGGAA	GTGGGAAAAT	ATTTTAAATG	240
TGCTACAACG	AAACAGCTGC	CTGAATTCTA	TATACCCTCT	GAAAATAATC	TGCACATAAA	300
ATGGGAAAGC	TTCACCGCAG	CAGACCCAC	TCGAG			335

## (2) INFORMATION FOR SEQ ID NO:16:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 509 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:

GAATTCGGCC	TTCATGGCCT	ATGCTTCTTC	CACGCACCAC	CACCACCACC	ACCACCATCA	60
TGGCCATAGC	CACGGTGGCC	TGGGGGTGCT	GCCTGATGGG	CAGTCCAAGC	TCCAGGCCCT	120
GCATGCCCAG	TATTGCCAAG	GACCGGGCCC	TGCCCCGCCA	CCCTACCTCC	CACCCCAGCA	180
GCCCTCTCTT	CCCCACCTC	CCCAGCAGCC	CCCACCCTTG	CCCCACCTGG	GCTCCATTC	240
ACCGCTCCC	GCCTCAGCCC	CACCTGTGGG	GCCACATCGC	CACTTCCACG	CCCATGGCCC	300
AGTCCCAGGG	CCCCAACACT	ATACCTTGGG	CCGGCCAGGC	AGGGCACCCA	GACGGGGGGC	360
TGGAGGACAC	CCTCAGTTTG	CTCCACATGG	CCGCCACCCC	CTGCACCAGC	CCACATCCCC	420
ACTGCCCTTG	TACAGTCCTG	CCCCCCAGCA	CCCTCCAGCC	CACAAACAGG	GCCCTAAGCA	480
CTTCATCTTC	AGCCACCACC	CATCTCGAG				509

## (2) INFORMATION FOR SEQ ID NO:17:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 352 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:

```

GAATTCGGCC TTCATGGCCT AAAGATGGCG GAGAACAGCG GTCGCGCCGG CAAGAGCAGC      60
GGGAGCGGCG CGGGGAAGGG GCGGTGTCC GCAGAGCAGG TGATTGCTGG CTTCAACCGC      120
CTTCGGCAGG AACAGCGAGG CCTGGCATCC AAAGCAGCTG AGTTGGAGAT GGAGTTGAAT      180
GAGCACAGCC TAGTGATCGA TACACTGAAG GAGGTAGATG AACTCGTAA GTGCTACCGC      240
ATGGTTGGAG GAGTGCTGGT GGAGCGAACT GTCAAAGAGG TGCTGCCCGC TTTGGAGAAC      300
AACAAGGAGC AGATACAGAA GATCATTGAG AACTGACAC AAGCAACTCG AG              352

```

## (2) INFORMATION FOR SEQ ID NO:18:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 207 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:

```

GAATTCGGCC AAAGAGGCCT AGCTAGGTTT TGAAGCTTCT GAGTTCTGCA GCCTCACCTC      60
TGAGAAAACC TCTTTGCCAC CAATACCATG AAGCTCTGCG TACTGTCTCT GTCTCTCTCTC      120
GTGCTAGTAG CTGCCCTTCT CTCTCTAGCA CTCTCAGCAC CAATGGGCTC AGTCCCCCCC      180
CCCGTACACG CCTCGAGGCA GGTCTGAG

```

## (2) INFORMATION FOR SEQ ID NO:19:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 306 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:

```

GAATTCGGCC TTCATGGCCT AGGCGGGACT AACACAGGCT TGTCTCTTT TCCTTTTGCC      60
AAGAAAGAAC ATTAAAATGT ACTACCAGCA TCTGCCATCA CTAGCATTTT ATAAAAAGAG      120
GTTCTGTTAG CAACAGAGTA GAACTGTAG GAAAGCATCT CAGAACAAAA CTAAGTTGAA      180
TAAATTCACC TAATAAAAAT GCCTTGGTCT AGGATTCCTT TTCTTCATCA AAAGCTGCAA      240
GAGAAAGCCA CTGCTTACCT GATGCCGATT TACTGGTCAT TGGGGTGGGC AGGTTTGGTT      300
CTCGAG

```

## (2) INFORMATION FOR SEQ ID NO:20:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 374 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:

```

GGTCTCATT GTCTATCCT GTCGCCCAGG CTGGAATGCA GTGGTATGAT CTCAGCTCAC      60
TGCAACCTCA GCCTCCTGGG TTCAAGTGAT TATCCTGCCT CAGCCTCCAA GTANCTGGGA      120
CTATAAGCAC ACATCACCAC ACCCAGCCAA TTTTGTGAA TTTTAAATAG GGTTCCTACTA      180
TGTTGGCCAG GCTGTTGAA CTCCTATCCT CAAGCGATCC ACCCACCTCG GCCTCCCGAA      240

```

```

GTGCTGGGAT TACCTGAGCC ACCGTGCCCA GCCCATTTCA CAGTACTTTT TATTTAACCC      300
TATCGTGTCTA GGGCACCATG CAATATACAG CTATTCATT TTCCTTTTGT CTCTGTTTCT      360
TAGGTGGTCT CGAG                                                           374

```

## (2) INFORMATION FOR SEQ ID NO:21:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 306 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:21:

```

GCAATGGCAG GAATTCGAAA TATTGGCATA TGGTCTTTTT GGATTAGATT ATATAAAATC      60
AGAAGAGGTA GAACCAGGCC CCAAGCACTC CTTTTCTCT GCATGATACT TCTGCTTATT      120
GTCTTTCACA CTAGCTACAT GATTTATAGT CTTGCTCCCC AATATGTTAT GTATGGAAGC      180
CAAATTAAT TAATAGAGAC TAATATAACT TCTGATAATC ATAAAGGCAA TTCAACCCTT      240
TCTGTGCCAA AGAGATGTGA TGCAGAAGCT CCTGAAGATC AGTGTAAGT TACCCGGACG      300
CTCGAG                                                           306

```

## (2) INFORMATION FOR SEQ ID NO:22:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 340 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:22:

```

GGTAGAGATA ACAAACAGG ATACCAAAGT TGAGCTGGAG ACTTACAAGC AAACCTCGGCA      60
AGGTCTGGAT GAAATGTACA GTGATGTGTG GAAGCAGCTA AAAGAGGAGA AGAAAGTCCG      120
GTTGGAACCT GAAAAAGAAC TGGAGTTACA AATTGGAATG AAAACCGAAA TGGAAATTGC      180
AATGAAGTTA CTGGAAAAGG ACACCCACGA GAAGCAGGAC AACTAGTTG CCCTCCGCCA      240
GCAGCTGGAA GAAGTCAAAG CGATTAATTT ACAGATGTTT CACAAAGCTC AGAATGCAGA      300
GAGCAGTTTG CAGCAGAAGA ATGAAGCCAT CAGCTCGAG                                                           340

```

## (2) INFORMATION FOR SEQ ID NO:23:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 176 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:23:

```

GAATTCGGCC AAAGAGGCCT AGATTTTAAA TTTGTTTGAT ACCTGCTGTG TATTCCTTGC      60
ATACCCAGCA CATTGTTGCC CATATTGTTG ACATGTAGTA TGTATTTATT ACAATTATAT      120
GATTAATGAA ATGTATCTTA TTTTTCAT GTATAGCATG TACAGTCACA CTCGAG      176

```

## (2) INFORMATION FOR SEQ ID NO:24:



- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 414 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:24:

```
GAATTCGGCC AAAGAGGCCT ATTCTTTGTC TTTTGACAT GTTCTTTGAG TCTTAGTATC      60
TGTAACGTGG CGTACTCTC TCTATCATGG GGGGGCATGT TTTGACATTA AATTGACTTT      120
TAAGAAAAAC ATGTCACTAA CCTGAAGCTC AGCCACACAG TGACTTTTAA GGTTTATTT      180
AGACTTTACT GTTGTTCTCA TGAGAGTAGG TACAGACTGC ATAAGGTTTA GAATCCCAGC      240
ATATGTCTGA AACGACGGGA CTTCACTGT GATTTCCACC AGAGAAATTA TAGCAGAGTG      300
GCTGAGCATG TGCTCTGAGG CCAGGCCCA GCTCTGCTGC TGACGAGCTG TGTGGTCCTG      360
GGCAGAGTGG TCTCCGAGTT CCAGTCCCTC CTCTGTAAAA TGGGCTTACT CGAG          414
```

(2) INFORMATION FOR SEQ ID NO:25:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 497 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:25:

```
GAATTCGGCC AAAGAGGCCT AAACATATAC CTAGTCTATA CTCTCTCTTA TCTCTGAACA      60
CTTTTCATCT GGAGCTATTA ATGCCCTCTA GCCTTTATTA TAATTATCAC ATATAATTAT      120
GCCTTTCTC CTCAAATTA TCTGTTGGAG TCATCTTATA GTAGAGTCTT TACAGAACAC      180
AAAGCATTCA ATCACTTTAT TTCAGACACC AACCTTGTTT TTGATGAACA TATGTTAGTC      240
TTAAGCCATC TAAAGTAATG CTAATGTGGG ATCTTATGGA AGACTACTGG TAATACAGGA      300
AAAAAAGTGG CAAAGAAATC TGACACGTTT GGCAATTATT CCTGAGGCTC TGACCTCTCA      360
ATTGTTGAGT GTTGGAGGTC ACAGTAAACA AACCATATAA AGATCATGTT GAAAGTCAAC      420
ATTATTAATA TACCATACTT GAAGGATATG TGGTTATTGT CTCACGTGTC CATGTGAAGA      480
GACCACCGTC CCTCGAG          497
```

(2) INFORMATION FOR SEQ ID NO:26:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 111 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:26:

```
GAATTCGGCC AAAGAGGCCT AGTTTTTGAT GAATTTGTGT TATTTACTTA TAACTAGAGT      60
TTGAATGTTT ATTGGGAAAA CTTAATCATG ATCATCTACT GGTGGCTCGA G          111
```

(2) INFORMATION FOR SEQ ID NO:27:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 311 base pairs

(B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:27:

GAATTCGGCC AAAGAGGCCT ATGCAATTCT GACCAGGAAG CTCCTCTTTA ATTGGA AATT	60
CTTAGAAAGG TATGGAGCAA AGGAGATCCC AGCAAACATT CCGGCATCTA CTGCTCTTGG	120
GTTTTTCTG TGTTGGTTTT TTTTGTTTTG TTTTGTATTAT GAGATGGAGT CTCACTCTGT	180
CGCCCAGGCT GGAGTGCAGT GGCGCAATCT CAGCTCACTG CAATCTCCAC CTCAGAGTT	240
CAAGTGAATA TCCTGCCTCA GCCTCTCAA CAGCTGGAAT TACAGGTATA CACCACCACA	300
CCGAGCTCGA G	311

(2) INFORMATION FOR SEQ ID NO:28:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 597 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:28:

GAATTCGGCC AAAGAGGCCT AAGTGCAGTG GTGCGATTAT AGC1CACTGT AGCCTCAGAA	60
TCCTGGGCTC AAGCTGTCCT CCCACTTAGC CTCCCAAAGT GCTGGGACTA CAGGCGTGTG	120
CCACGGGGCC CAGCCATTTT TTCGAATATT TTCAATCTGC AGTTGTTTGA ATCCACAGAT	180
GCAGAACCCA TTTCTAATGG AGGGCTGACT ATACCTTTCT GATGACCTAA ATATTTGTGT	240
CCACTATTGG GACACTCCTT TCTTAGTGTC AAGGTTTGTG AGAAATTGAG GGCTGTTTGA	300
TGGGCAAAGA TTTATTATT TATTTACTGG CTTATCTACA ATTGAGACAG GGTCTCACTA	360
TGTTTCTCAG GCTAGTTCTA ACTCCTGGGC TGAAGCAGTC CTCCCATCTC AGCCTCCCAG	420
AGTGCTGGGA TTACAGGTGT GACACACCAT ACCCGGCAGA GCAAAGAGTT AAGAGTACAA	480
GACATTTGAT CATCTTGAGG AGTATTTACT TCAGACTGAA ACACCACATG AAATTCTAGA	540
GTCCAACAGA AAGTGAATA ATTTTTTGCT TTTCCCTTCT TCCGCTACAT CCTCGAG	597

(2) INFORMATION FOR SEQ ID NO:29:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 506 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:29:

GAATTCGGCC AAAGAGGCCT AATTCTAGAC ATGCTCAGCT TTGTGGATAC GCGGACTTTG	60
TTGCTGCTTG CAGTAACCTT ATGCCTAGCA ACATGCCAAT CTTTACAAGA GGAAACTGTA	120
AGAAAGGGCC CAGCCGGAGA TAGAGGACCA CGTGGAGAAA GGGGTCCACC AGGCCCCCCA	180
GGCAGAGATG GTGAAGATGG TCCACAGGC CCTCCTGGTC CACCTGGTCC TCCTGGCCCC	240
CTGGTCTCGG TGGGAACCTT GCTGCTCAGT ATGATGGAAA AGGAGTTGGA CTTGGCCCTG	300
GACCAATGGG CTTAATGGGA CCTAGAGGCC CACCTGGTGC AGCTGGAGCC CCAGGCCCTC	360
AAGGTTTCCA AGGACCTGCT GGTGAGCCTG GTGAACCTGG TCAAACCTGGT CCTGCAGGTG	420
GTCGTGGTCC AGCTGGCCCT CCTGGCAAGG CTGGTGAAGA TGGTCACCCT GGAAAACCCG	480
GACGACCTGG TGAGAGAGGC CTCGAG	506

## (2) INFORMATION FOR SEQ ID NO:30:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 324 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:30:

```
GAATTCGGCC AAAGAGGCCT AGTCTGTGGT CATTTC AAC TCTCATTTAT AGGATTCTAA      60
AAGGGCACTA CATTACTCCA CTCCCTTATC TAAATAAAT TTAAAATTCA TCGGAATTG      120
TCCAGTCCTC CATCACTGGA AAATGTACAG ATTCCTTCTC TGGAAATATC TAAAGAAAAG      180
TACAGCTAAT GTTCCCCCAT TTCGTGTTGT TTTGTTGCTG CTTTAACTAT GAACTCATCT      240
GGCCGGGCGC AGTGACCAAG CCGCCGGGAG CTGGGGAGAG ACGCACCGGG GCGGCGACTG      300
GGCCAGGAGA CCAGAACACT CGAG                                         324
```

## (2) INFORMATION FOR SEQ ID NO:31:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 245 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:31:

```
GAATTCGGCC AAAGAGGCCT AGGAGCAGAT TCCTCATGGT GCTTGTTTAT TATATATATT      60
TAATCCTGCT TGACACTTTA CCCAAGGGAG ATGGTCCCTT TTATCAGTTG AATGTTAGCA      120
GCGTTATTTT AGAGTGTGGT GACTGGTTAG AGAACTCAT GTACTCAACC AGCCACAGTT      180
TCAAACAAAA TTTTATGTG CAAAGGACAG CAACCTTCTT GTATGTTAAA CCACCAGTAC      240
TCGAG                                         245
```

## (2) INFORMATION FOR SEQ ID NO:32:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 225 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:32:

```
GAATTCGGCC AAAGAGGCCT AGGTGCTTTG GTTTTTGCTT TTTAGTCAT CCCCATGAGA      60
ATAATAAACT CCATGAGGGC AGCAACTTGG CTGGCCTGTG TGCCAGTGCT GGGGACATCA      120
CTGAGAAATG AAGGCCATT TGGCAGGCTA TTTTGTAGCA AGATTCCTGA GGCCCAATCG      180
TTGGGTGATG AGATGGACCC GAGGTATTTT ACTCCAGCTC TCGAG                                         225
```

## (2) INFORMATION FOR SEQ ID NO:33:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 447 base pairs
  - (B) TYPE: nucleic acid

(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:33:

GCCAAAGAGG	CCTAGAGAGC	TCTGGGGGGC	AACCTGGAGG	TCTGAAAAGA	GGAGCCAGAG	60
AAGGTGGTAC	CAGGCTTCCT	GGTCAGAACC	GGCCTGGAGC	TCCTTCCCTT	CCCCCTGGCC	120
TGAGAGGTTG	CTTTTAAGTC	TTCCACCCCT	TGTTCCATCT	GCCTGCCAAC	CCATCGGAAA	180
GGAATCCACA	TCATATTGGA	GATGACCCCA	TCAACCCAG	GGCTCCAGCA	CTACCAAGTT	240
GGAATTCAC	GCCCGGGAGT	GGGGTAGAGG	AAGACGAGAC	AGGACGAGGC	AGAAAAGCAC	300
ATTTTAAAAA	CCAGACAAGA	TGGCTAGGCC	ATCACCAACC	AACGGACTTA	CCTTACATT	360
TTGTAGGTAA	TTCCCCCAA	ATCTTGATTT	TTTTTTTCCT	CAATTATCCT	TTAAAAATA	420
AGAAAACACA	TTCCAAACCC	ACTCGAG				447

(2) INFORMATION FOR SEQ ID NO:34:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 402 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:34:

GCGATTGAAT	TCTAGACCAT	GCCTGCTCTG	GGCCCAGCTC	TTCTCCAGGC	TCTCTGGGCC	60
GGGTGGGTCC	TCACCCTCCA	GCCCCTTCCA	CCAACTGCAT	TCACTCCCAA	TGGCACGTAT	120
CTGCAGCACC	TGGCAAGGA	CCCCACCTCA	GGCACCCTCT	ACCTGGGGGC	TACCAACTTC	180
CTGTTCAGC	TGAGCCCTGG	GCTGCAGCTG	GAGGCCACAG	TGTCCACCGG	CCCTGTGCTA	240
GACAGCAGGG	ACTGCCTGCC	ACCTGTGATG	CCTGATGAGT	GCCCCCAGGC	CCAGCCTACC	300
AACAACCCGA	ATCAGCTGCT	CCTGGTGAGC	CCAGGGGGCC	TGGTGGTATG	CGGGAGCGTG	360
CACCAGGGGG	TCTGTGAACA	GCGGCGCCTG	GGGCAGCTCG	AG		402

(2) INFORMATION FOR SEQ ID NO:35:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 307 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:35:

GAATTCGGCC	AAAGAGGCCT	AGTGGAAGAT	TTGGGTACTG	TCTTTAATAA	ATCAATCAAT	60
CGACTCTTAT	TTCAAGGAGA	AAGTTCTATG	TTATATGTTG	AAGGTGAACA	GATCATATTT	120
AGAGGATATA	ACAATTAGAA	ATCTAGAAAA	TAATTATCAC	TTTTATAAAA	TTTTTAGTCA	180
ACTGTACAAA	TAATTACATA	AAACATCAAT	TAATTATGCT	TAAAAATCAC	TAATGTTTAT	240
AATATATAAT	CACTATTTGT	AATCAAAAGT	TTAATTTTAT	GCCAAAAAAT	AAAAAATGCT	300
TACTCGA						307

(2) INFORMATION FOR SEQ ID NO:36:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 324 base pairs

(B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:36:

GAATTCGGCC	AAAGAGGCCT	ACTTCCATAA	CCGTGCTTTT	GACGTAAAAA	ATTTTAAATT	60
CAGCCTTTTG	GAGAACACTA	AGTATCTTAG	TGTGTTTTTA	CTTACTATAA	TAATATTATT	120
GACCTAGTGT	AATATTACTG	CCATATGGAC	CTCAAGGGTA	CTTTTCTGAT	AAATTTCTGT	180
TATGGTTTCA	TAATTAAACA	AAAGGATAAT	ATACAGAGTT	GTGGAGTTT	TTTGGTTTTG	240
TTTTGTTTTG	AGATAGCCTG	GGCAACGAGT	GAAACTCTGT	CACACACACA	CACACACACA	300
CACAGACACA	CACCAAATCT	CGAG				324

(2) INFORMATION FOR SEQ ID NO:37:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 426 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:37:

GAATTCGGCT	TCATGGCCTA	CAAGAAGATG	AAGAAGATTG	TGGATGCCGT	GATCAAGTAC	60
AAGGACAGCA	GTGGACGTCA	GCTCAGCGAG	GTCTTCATCC	AGCTGCCCTC	GCGAAAGGAG	120
CTGCCCCGAGT	ACTACGAGCT	CATCCGCAAG	CCCGTGGACT	TCAAGAAGAT	AAAGGAGCGC	180
ATTCGCAACC	ACAAGTACCG	CAGCCTCAAC	GACCTAGAGA	AGGACGTCAT	GCTCCTGTGC	240
CAGAACGCAC	AGACCTTCAA	CCTGGAGGGC	TCCCTGATCT	ATGAAGACTC	CATCGTCTTG	300
CAGTCGGTCT	TCACCAGCGT	GCGGCAGAAA	ATCGAGAAGG	AGGATGACAG	TGAAGGCGAG	360
GAGAGTGAGG	AGGAGGAAGA	GGGCGAGGAG	GAAGGCTCCG	AATCCGAATC	TCGGTCCAGT	420
CTCGAG						426

(2) INFORMATION FOR SEQ ID NO:38:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 482 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:38:

GAATTCGGCC	TTCATGGCCA	ACACATAATC	CACGCTCATC	TTGCAAAGCG	CTATTTCAGG	60
CACATCATTG	GAATACAGGA	AGTAGCCCTG	CACCTGCCAG	TGAGCTCGCC	ATTCACTGAT	120
TGGAAGAGTG	ACCTGGCATC	TTGGAAATCA	TTGTGTGTCT	TCAGGAGAAT	GTGCAGTGTC	180
TTGTAACAAC	TAATTATAAT	GCAAATTAGG	GCTACATTGT	AATCTGCTTT	GTTAATGAAA	240
ATGATAAAAC	AGAATATTGA	CAAGCTAGGA	CACCTGTGGT	ATCTTTAATT	GTATCTCCTT	300
CAGAAGTTTG	CTTCTTATGG	TATAATAAAG	TATGGAAGAA	TATTGAGTAT	ATGTTTACTC	360
TGGGCCTGGG	AGAACTTAAC	TTTCTAGAGC	AGTTTGTGTA	CTTGTGTGCA	ATGGGGAGAG	420
GTACCATGAT	GACACTCACA	GGGAGCCACT	GTTCACTGAC	ACTTGAAGG	CCCTGCCTCG	480
AG						482

(2) INFORMATION FOR SEQ ID NO:39:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 363 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:39:

```

GTGTTTGCCC ACACCCTCCT TGAATTTAAC TGCCACAATC TATCCGCAGA TGTGTTTTGT      60
TCTGTTTCTT GTTTTTCACT AGCGTTTGCG TTGCTTCCTC TGAAGCCAGA GGGTGAAAGG      120
CCCTAGCAAA GTTAGTTATC AGTCAACTGA TGATAACTGT GATCCTTAAA GATGAATTCC      180
CAGCCTGAGG TGACACACAG AGGTTTCAGCA GACGTCTCAG GATCTGTCAC ATGTCATGTT      240
GCTTGGTGTG AAGATGGAAG AACAAAGTCC ACATCAGTTT CTGCTCCTTC AAACAGTGTG      300
TCGATATGAA ACATTGAGAT TTGGCAGAAA CATGTGCCTA GTTTCAGCA CCAATACTC      360
GAG
  
```

(2) INFORMATION FOR SEQ ID NO:40:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 336 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:40:

```

GAATTCGGCC TTCATGGCCT AAAGGGATAT TCACTCAAAT CCCTAAGTAT TTCAGAAACA      60
GCCTGAGAGC AAGTCCTTGG CTTGCTTTC TAGTTTTAAA AGGCTTTTAA CTGTTTAGTC      120
TGAGATTCCC CTAAAAGTTC CAGGAAAGCA AACTCAAAAA GAGCCTAGGT GGTCAATCAT      180
TATTTTTGCT GCGTTTATAT AAATAATCAG GCCAAGTTAA TGAGACTAAA CTTATTTTGC      240
AAGCAAATCA GTCTTTGCTT ATTTTGGTA GGAATGGGGG TAAATGGAGA GAGAGAAATT      300
ATGTTTCAGA AGAAACTAT AGCACACCAA CTCGAG
  
```

(2) INFORMATION FOR SEQ ID NO:41:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 251 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:41:

```

GAATTCGGCC TTCATGGCCT AGTGGGAAAC ATTATTTCAA GACATTAGGG ATAAGAATGC      60
CAGTTGCTAC TGAGTTGGTT ATTGTTTCAA GGATTTATCA ATACATAGAG CAAATAATTA      120
TGTTTGGCTT TGTCTTATTT TTATTTCTTT ACTTTAGAAA CAGTACAGCT ACTTACAAAT      180
CAAGTTTAGA ACTCTCAGGT TATCTTAAAT CTGAAGCTTC TACCTTCCTA AGAACAAAAC      240
ACCGGCTCGA G
  
```

(2) INFORMATION FOR SEQ ID NO:42:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 265 base pairs

(B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:42:

GTTCAACCAG	TTCAAATACT	TTTTCAACCT	CTATTTCTTA	CTTCTTGCCT	GCTCTCAGTT	60
TGTTCCCGAA	ATGAGACTTG	GTGCACTCTA	TACCTACTGG	GTTCCCCTGG	GCTTCGTGCT	120
GGCCGTCACT	GTCATCCGTG	AGGCGGTGGA	GGAGATCCGA	TGCTACGTGC	GGGACAAGGA	180
AGTCAACTCC	CAGGTCTACA	GCCGGCTCAC	AGCACGAGGC	ACAGTGAAGG	TGAAGAGTTC	240
TAACATCCAA	GTTGGAGCCC	TCGAG				265

(2) INFORMATION FOR SEQ ID NO:43:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 437 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:43:

GAATTCGGCC	TTCATGGCCT	AAGATGATTG	TGCTATTATT	GTTTGCCTTG	CTCTGGATGG	60
TGGAAGGAGT	CTTTTCCCAG	CTTCACTACA	CGGTACAGGA	GGAGCAGGAA	CATGGCACTT	120
TCGTGGGGAA	TATCGCTGAA	GATCTGGGTC	TGGACATTAC	AAAACCTTCG	GCTCGCGGGT	180
TTCAGACGGT	GCCCAACTCA	AGGACCCCTT	ACTTAGACCT	CAACCTGGAG	ACAGGGGTGC	240
TGTACGTGAA	CGAGAAAATA	GACCGCGAAC	AAATCTGCAA	ACAGAGCCCC	TCCTGTGTCC	300
TGCACCTGGA	GGTCTTTCTG	GAGAACCCCC	TGGAGCTGTT	CCAGGTGGAG	ATCGAGGTGC	360
TGGACATTAA	TGACAACCCC	CCCTCTTTCC	CGGAGCCAGA	CCTGACGGTG	GAAATCTCTG	420
AGGGCGCCAC	ACTCGAG					437

(2) INFORMATION FOR SEQ ID NO:44:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 242 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:44:

GAATTCGGCC	TTCATGGCCT	AGTACCTTAA	AAACTTTGGA	AATAATAATA	ATAATAATAA	60
ACAAAAAATA	ATCCCAAACC	CCGTAAGTTT	AACCTTCTAT	GCTTTGGCTG	TTTTTGGTTT	120
ATTTTTTGT	TTTTAGAAGG	GGTCTCGCTC	TGTCGCCAG	AATGGAGTGC	AGTGGCTTAA	180
TCAGGGCTCA	TTGCAGCCTC	GACCTCCTTG	GTTTGGGCGA	TCCTCCTCCC	TCCCACTCG	240
AG						242

(2) INFORMATION FOR SEQ ID NO:45:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 264 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:45:

```
AATTAAATTA AATTAAATC TTTGTTACAA ACTATGAAAA TGAATATAAG TAAATTTTCAT    60
ATCATTTCTT TTCTAGATTT ATTATCTAGG ATAGATTGGG ATGAACATAAT GAAAAAAGAT    120
GAACCGCCTC TTGATTTTCC TGATACCCCTG GAAGGATTGG AATATGCTTT TAATGAAAAG    180
GGACAGTTAA GACACATAAA AACTGGGGAA CCATTTGTTT TTAACCTACC GGAAGATTTA    240
CACAGATGGA ACCAGAAGCT CGAG                                         264
```

(2) INFORMATION FOR SEQ ID NO:46:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 422 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:46:

```
GAATTCGGCC TTCATGGCCT AACCTGGAGA AACTATTTAA GTTGGATGAA GCAAGTGCCC    60
AGCTCCTTGC TTATAAGGAA AAAGGCCATT CTCAGAGTTC ACAATTTTCC TCTGATCAAG    120
AAATAGCTCA TCTGCTGCCT GAAAATGTGA GTGCGCTCCC AGCTACGGTG GCAGTTGCTT    180
CTCCACATAC CACCTCGGCT ACTCCAAAGC CCGCCACCCT TCTACCCACC AATGCTTCAG    240
TGACACCTTC TGGGACTTCC CAGCCACAGC TGGCCACCAC AGCTCCACCT GTAACCACTG    300
TCACTTCTCA GCCTCCACG ACCCTCATTT CTACAGTTT TACACGGGCT GCGGCTACAC    360
TCCAAGCAAT GGCTACAACA GCAGTTCTGA CTACCACCTT TCAGGCACCA TAGTGACTCG    420
AG                                         422
```

(2) INFORMATION FOR SEQ ID NO:47:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 338 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:47:

```
GAATTCGGCC TTCATGGCCT ACCGAAGGGC ATCCCATCGG TTGGGTAGGT CATGGTTAAA    60
AAATCATCTC CTTTGGTTGC ATATTTAATT ATTTTCCACT ATTTTTCCT CACACAAAAT    120
GATTTTGCCC GGTACCCTTT TTGGGGGTGC ACAGTCCATG AGATGAATAT TGAATGGGGA    180
GACCTGGGTT CTAGTCTCGC ATTTACCAGT CAGGTTACAA TGCAGCCTTG AGCAAGTCAC    240
TTCACCTCCC AGCGCCTCAG TTTCTCATT GTAAGATAGG AAAAGCCTTG TCATTTTAA    300
AATTTTATT TTTGCATATA CCTCATGGCG AACTCGAG                                         338
```

(2) INFORMATION FOR SEQ ID NO:48:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 263 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear



(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:48:

GAATTCGGCC	TTCATGGCCT	ACTATGCTCT	GCACGTGGGT	CATTTCTTAC	TGGTTTCTAA	60
AAGCCTTTCA	TTTTCTGCCT	GTACACAATA	GCCCCCTTCC	TCCATTGTTT	TTAGGATCCT	120
TTTCTCTCTT	ACCAGCTGTT	AACCTGGAAG	TATTTCTTCT	TCATCCCGAA	TCTCCCATGT	180
CCTCCCCACT	TCTATTGTT	TCCATCCAAT	GTGGATTCAT	GATCATTTTA	TGGATTTTAA	240
ACTACTCTGG	GGCTACCCTC	GAG				263

(2) INFORMATION FOR SEQ ID NO:49:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 275 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:49:

GAATTCGGCC	TTCATGGCCT	AGAAACACAT	GTGATCTGTA	CTCATGAGAA	CCTGTAGTTA	60
ACTATACGAG	CCTTGCTGTG	CATTTTGTTT	TTATCTGAGC	CTGTCTTTCA	ATGTCCTATC	120
CCTTGAGAGA	ACTGAGGGCT	GAGAACCAAG	CTTTCCGAAG	CGGTCTGAGT	GTGAGCGGTG	180
GTAGTGGTCT	CTGGAGAAAA	GAATGGAGAC	AGGATAGGAC	TGGAGAAGA	GTGAGTCATT	240
GTTACCCAGA	AACCCTGGAG	AACACTGGAC	TCGAG			275

(2) INFORMATION FOR SEQ ID NO:50:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 555 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:50:

GGGCGTTCTC	ACGCCCCGAA	CAATTCCTGA	GTAGGGCCTT	GCTTGAGTTC	TTCGGAAAGT	60
CTCATCCACC	CCCACATCGC	CTCTTTAGGA	AGTCACTTAA	TGTTGGGCTT	CATTATTCCC	120
ACATCCCTTT	CCTTACTACT	TGCCTGCACT	TCTTGAGAAA	AAGACTGCAG	AAAGGAGAGG	180
TGGGGCTTTC	AGTAGAAACA	AGCAAACCGC	AGGTCCTGT	GGGGGGACTC	TCCAGGAAGA	240
AGGGTAATTT	CCTGCCTCCT	TAAATTGGCT	GCTACTGTCA	GTTATTTTGC	TCCCAACCCC	300
AGAGCTTCAC	TTGCTCCTTC	ACTTCCCAGT	TCCGCAAGAA	CCGTGGGCGA	CAGTTATGGA	360
GAAGCGTCTG	CAGGAGGCTC	AGCTGTACAA	GGAGGAAGGG	AACCAGCGCT	ACCGGAAGG	420
GAAGTACCGA	GATGCTGTGA	GTAGGTACCA	TCGAGCTCTG	CTTCAGCTGC	GGGGTCTGGA	480
TCCGAGTCTG	CCCTCTCCGT	TACCTAATCT	CGGACCTCAG	GGCCCGGCC	TCACGCCTGA	540
ACGACCTGCC	TCGAG					555

(2) INFORMATION FOR SEQ ID NO:51:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 360 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:51:

GTGAAGATGG	ACTGCTCTGG	GGCCCATGTG	CAAGTGACCT	GTGCCAAGCT	CATCTCCAGG	60
ACAGGCCACC	TGATGAAGCT	TCTCAGTGGG	CAGCAGGAAG	TAAAGGCATC	CAAGATAGAA	120
TGGGATACGG	ACCAATGGAA	GATTGAGAAC	TACATTAATG	AGAGCACAGA	AGCCCAGAGT	180
GAACAGAAAG	AGAAGTCGCT	TGAGCTCAAA	AAAGAAGTTC	CAGGATATGG	CTATACTGAC	240
AAACTCATCT	TGGCATTAAAT	TGTTACTGGA	ATACTAACGA	TTTTGATTAT	ACTTTTCTGC	300
CTCATTGTGA	TATGTTGTCA	CCGAAGGTCA	TTACAAGAAG	ATGAAGAAGG	ATCACTCGAG	360

(2) INFORMATION FOR SEQ ID NO:52:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 621 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:52:

GAATTCTGGCC	TTCATGGCCT	AGCTCCTGCG	TAAAGGAGCA	TGAGAGCGTG	GGAGTTTTCG	60
AGTGGCCCGTG	GGGTTCTTCG	TCGCGTCTCG	GTGCGGCGTC	GCTTTCTGCA	GCTCCTGTCA	120
GGGAGCGCGA	GGCCTGTAT	TAACCGCGGA	GCGCTTTGTC	ACGAANTCCC	TGTGGCGTCT	180
TGAAGAAGGC	ATTCCCCACC	CGCCAAATGG	CGTCCATGCC	CCCGACGCCC	GAGGCCCAGG	240
AGAGTCGAGG	TACCTTTTTC	GTCCAAGTTT	ATNGCTGCTT	TCGGTCTCTG	CCTGACCCCN	300
TCCTTTGGAG	GAGAGTTGGG	CATGCCTGTT	GTGGTAGGAG	TGCTCNTGAG	CCCCAAATAG	360
CCCTTTGACC	AAGTGTCTT	CGTTCCAAGA	CCACACACAT	AATGGTTTAC	CAACTTCNTT	420
CTTTCAGAAC	TACCAACTGG	GAGCAGGGAC	CTGTGGAGGA	ATCTCTGAGA	GAGTTTCTCA	480
ATGTCTTATC	TGTTTGTTTT	GTTTGTGTTG	GAGATAGGGT	CTGGCCTTGT	CGCTGGAGTG	540
TTGCTTGTCT	GGCTGGAGTG	CAGTGCTGAT	ATCATAGCTC	CGTCTGGAAC	TCAGGGAATC	600
CTTACGCCTC	AGCCTCTCGA	G				621

(2) INFORMATION FOR SEQ ID NO:53:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 337 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:53:

GAATTCTGGCC	TTCATGGCCT	ACAATTTGGA	GCAAGGCTTA	GCAGAAGACG	GCGGCATGAG	60
CAGCGTGACT	CAGGAGGGCA	GACAAGCCTC	TATCCGGCTG	TGGAGGTCAC	GTCTGGGCGG	120
GGTGATGTAC	TCCATGGCAA	ACTGTCTGCT	CCTGATGAAG	GATTATGTGC	TGGCCGTGGA	180
GGCGTATCAT	TCGGTTATCA	AGTATTACCC	AGAGCAAGAG	CCCCAGCTGC	TCAGCGGCAT	240
CGGCCGGATT	TCCCTGCAGA	TTGGAGACAT	AAAAACAGCT	GAAAAGTATT	TTCAAGACGT	300
TGAGAAAGTA	ACACAGAAAT	TAGACGGACC	TCTCGAG			337

(2) INFORMATION FOR SEQ ID NO:54:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 224 base pairs
- (B) TYPE: nucleic acid

(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:54:

GAATTCGGCC AAAGAGGCCT ACATTACTGG GTTAGAAAAC AAAGAGGGAG TGCCCTGCAC	60
ATTTTCTTTT GTGCTTTTAA ATGTTTCTTA AGTTGGAACA GGTTTCCTCG GGCCTGTTTT	120
GACTGATTGC TGGAGTGCAT TTGATAGTTA AAAATTACTA ATTGGTTTTA TTTCCCTTCA	180
CACTCTGCCT CCCCTATTTC CCCCAATTGA CCCTAAACCT CGAG	224

(2) INFORMATION FOR SEQ ID NO:55:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 249 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:55:

GATTTAATGC ATGCTAGCAA CAGCCTTAAC TTTGGATTCA GTTATTTGAA ACACTTTTCC	60
GGCATCTTTC CCTTTCTAAT GTTGTGGGGT GGAAACCGGA TGGCAAATCA CTGTGAGCCG	120
GATACCTCAG CACAGTCCAC CTTGTGTGTG ACTTCACAAA TGGGGGACTT CACAAATGGG	180
GTAACGAAT GTTATTACTT TCAAATTTTG ACATGGAGCA TTATGATCAA GGAAATGGAG	240
CAACTCGAG	249

(2) INFORMATION FOR SEQ ID NO:56:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 257 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:56:

GCTGCGCCGC ACCCTGAGAG ATGGTTGGTG CCATGTGGAA GGTGATTGTT TCGCTGGTCC	60
TGTTGATGCC TGGCCCCTGT GATGGGCTGT TTCACTCCCT ATACAGAAGT GTTTCATGC	120
CACCTAAGGG AGACTCAGGA CAGCCATTAT TTCTCACCCC TTACATTGAA GCTGGGAAGA	180
TCCAAAAGG AAGAGAATTG AGTTTGGTCG GTCCTTTCCC AGGACTGAAC ATGAAGAGTT	240
ATGCCGGCTA CCTCGAG	257

(2) INFORMATION FOR SEQ ID NO:57:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 229 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:57:

```

GAATTCTAGA CTTTGTCTCC AGAGCATTGC CTTTATAAGC AGATTGGCAC CAACAGTTCC      60
ATAGTTTAAC ATCTAGTTAA GCTACAAATA TAGTATAAGC ATTATTAGCA GCTGGTACTT      120
CTGCTAGGGG TTGTAAATTC CAGGTGTTAC ACTGACCTCA ATCCAATTGA CATAATTTAC      180
ATAAATGCAT CTCGGTGGAA AAATAATCAT TTTCTTGGCA TATCTCGAG      229

```

## (2) INFORMATION FOR SEQ ID NO:58:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 257 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:58:

```

GAATTCGGCC TTCATGGCCT AACTGCTAT GTATGTTTTT TCCTTAATGA TGAAGAGTGT      60
AGATGATGCT AATAATAGTA GCTGATGTAC TGACTTTTAG CTGTGTGCAA AGCCATGTTC      120
AAAATACTTT ACAAGTGTTA ACTTGTTTGA TCTTCACAAC AACCCTAAGA AGTGGATATT      180
ATTAAAGTAG ATTTTGAAG ACTGATCTAT TTAATTATTA ATAGATCTGT CTCATTCCTT      240
TTTTCCCCCA ACTCGAG      257

```

## (2) INFORMATION FOR SEQ ID NO:59:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 223 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:59:

```

GAATTCGGCC TTCATGGCCT ACGCGTCTGC TTCGGAGACC GTAAGGATAT TGATGACCAT      60
GAGATCCCTG CTCAGAACCC CCTTCCTGTG TGGCCTGCTC TGGGCCTTTT GTGCCCCAGG      120
CGCCAGGGCC TTTTGTGCC CAGGCGCCAG GGCTGAGGAG CCTGCAGCCA GCTTCTCCCA      180
ACCCGGCAGC ATGGGCCTGG ATAAGAACAC AGTATCACTC GAG      223

```

## (2) INFORMATION FOR SEQ ID NO:60:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 171 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:60:

```

GAATTCTAGA CTGTCATGTC CCAGTGTGAA ATTTCAGCAC GGCATTTTCT GCATCCTTTC      60
ATGGCCATCC AAAGGATTCC GCTGCAGAAA TTATTGATGT GCTATTTTGT CTGTCTTGTG      120
ATGCAGGCTG CTTTGGGCC CTGGTCACT CTTCCAAGGC TGCAACTCGA G      171

```

## (2) INFORMATION FOR SEQ ID NO:61:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 336 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:61:

```

GAATTCGGCC TTCATGGCCT AAAAAGCAAA AGAAAAGTAA AAGGAAGAAA CAAGAACAAG      60
AAAAAAGATT ATATTGATT TAAATCATG CAAAACTGC AACTCTGTGT TTATATTTAC      120
CTGTTTATGC TGATTGTTGC TGGTCCAGTG GATCTAAATG AGAACAGTGA GCAAAAAGAA      180
AATGTGGAAG AAGAGGGGCT GTGTAATGCA TGTACTTGGG GACAAAACAC TAAATCTTCA      240
AGAATAGAAG CCATTAAGAT ACAAATCCTC AGTAAACTTC GTCTGGAAAC AGCTCCTAAC      300
ATCAGCAAAG ATGTTATAAG ACAACTTTTA CTCGAG                                336

```

## (2) INFORMATION FOR SEQ ID NO:62:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 212 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:62:

```

GAATTCGGCC AAAGAGGCCT AGAAGAGCAA GCGCCATGTT GAAGCCATCA TTACCATTCA      60
CATCCCTCTT ATTCCTGCAG CTGCCCTGCG TGGGAGTGGG GCTGAACACG ACAATTCTGA      120
CGCCCAATGG GAATGAAGAC ACCACAGCTG ATTTCTTCTT GACCACTATG CCCACTGACT      180
CCCTCAGTGT TTCCAATCTG CACGCTCTCG AG                                212

```

## (2) INFORMATION FOR SEQ ID NO:63:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 349 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:63:

```

GAATTCGGCC TTCATGGTCT ATGCTACTCA GTTGATCTA GCAGAAACAA AAGCTGAGTC      60
TGAGCAGTTG GCGCGAGGCC TTCTGGAAGA ACAGTATTTT GAATTGACGC AAGAAAGCAA      120
GAAAGCTGCT TCAAGAAATA GACAAGAGAT TACAGATAAA GATCAGACTG TTAGTCGGCT      180
TGAAGAAGCA AACAGCATGC TAACCAAGA TATTGAAATA TTAAGAAGAG AGAATGAAGA      240
GCTAACAGAG AAAATGAAGA AGGCAGAGGA AGAATATAAA CTGGAGAAGG AGGAGGAGAT      300
CAGTAATCTT AAGGCTGCCT TTGAAAAGAA TATCAACACT AAACCTCGAG              349

```

## (2) INFORMATION FOR SEQ ID NO:64:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 391 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:64:

```

GCGGGCTAGT CATGGCGTCC CCGTCTCGGA GACTGCAGAC TAAACCAGTC ATTACTTGTT      60
TCAAGAGCGT TCTGCTAATC TACACTTTTA TTTCTGGATC ACTGGCGTTA TCCTTCTTGC      120
AGTTGGCATT TGGGGCAAGG TGAGCCTGGA GAATTACTTT TCTCTTTTAA ATGAGAAGGC      180
CACCAATGTC CCCTTCGTGC TCATTGCTAC TGGTACCGTC ATTATTCTTT TGGGCACCTT      240
TGTTGTTTTT GCTACCTGCC GAGCTTCTGC ATGGATGCTA AAAGTGTATG CAATGTTTTCT      300
GACTCTCGTT TTTTGGTTCG AACTGGTTCG TGCCATCGTA GGATTGTTT TCAGACATGA      360
GATTAAGAAC AGCTTAAGA ATAATCTCGA G                                     391

```

(2) INFORMATION FOR SEQ ID NO:65:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 481 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:65:

```

GAATTCGGCC TTCATGGCCT AGGGAGTCTG AAGCAATTTC TGAAGAAGAC CAAAAGAAGC      60
CACAAAGACGA TGAATGAAAA GGCATGGAAG CGTTGGTGCA CACAAATCCT CTCTGCCCTA      120
AGCTACCTGC ACTCCTGTGA CCCCCCATC ATCCATGGGA ACCTGACCTG TGACACCATC      180
TTCATCCAGC ACAACGGACT CATCAAGATT GGCTCTGTGG CTCCTGACAC TATCAACAAT      240
CATGTGAAGA CTTGTGAGA AGAGCAGAAG AATCTACACT TCTTTGCACC AGAGTATGGA      300
GAAGTCACTA ATGTGACAAC AGCAGTGGAC ATCTACTCCT TTGGCATGTG TGCACTGGAG      360
ATGGCAGTGC TGGAGATTCA GGGCAATGGA GAGTCTCAT ATGTGCCACA GGAAGCCATC      420
AGCAGTGCCA TCCAGCTTCT AGAAGACCCA TTACAGAGGG AGTTCATTCA AAAGTGCCTG      480
C                                     481

```

(2) INFORMATION FOR SEQ ID NO:66:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 583 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:66:

```

GAATTCGGCC AAAGAGGCCT ACGATTGAAT TCTAGATCTG CCCGTCTTGG CCTCGCAAAG      60
TGCTGGGATT ACAGGCGTGA ACCACTGTGC CTGGCATATT TGTCTATTAA TTTGCTTTTC      120
TTTAGATGTA TTCTAGAGGG GGGAAAATCA GTAGAAGAAG AGTTATGTAA TTCTAACAAG      180
TTCTCCATGT GTCTTGCCAT CTNGCTTTT CTCATCCTAT CAGTACTGGA TGAGAATGTT      240
TATTTCACTG AACTTTGCCA AAGAGTTTCA ACATTTTTT GTTTAATCAT AGGAGAAAAA      300
GGTTTATCTT ATTTTAAAAA ATTTTATTT AATTCITTCA TTACAAATGA AGTCCAGAA      360
GTTGTATTTG TTTCTTTAGG CTGTTCTTAA TTGTTTATTG GAACAGGCAG GGTTTGAAGG      420
AGTGGGGATA CTGGGAAAGC CAGGGTGATG AGAAAAATAGG AAAGGGGTCT TGTCTATGGG      480
AGGCCACTAT ACCAGTGGCC CTTGTACCAG GACTAATATG GTACTTTGAA GCTTTAAATT      540
CATTTCTTTA TTCAATAATT TTAGGCATCC CAGGATACTC GAG                                     583

```

## (2) INFORMATION FOR SEQ ID NO:67:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 484 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:67:

```

GAATTCGGCC AAAGAGGCCT AGCTATCCGC TTTGCTATTT TAGTGGCATT ATCAAAATCA      60
CTGGAAGCAC CTGTNGTAAT ATGGTCGGTT CCAAATATAA GCTCCTCTGC CACTCTTCCT      120
CCCATACTAA CATCCATTG  TGCAAGCAGC TGGGCTCTAG TTTCATTCCA TCTGTCATTC      180
TCAGGTAACA GGGACACATG TCCAAGTGTT GGCCCCCGTG GCATGATTGT AGCTTTGTTG      240
ATAGGCATTG CATCTTTTGT GTAATATGCA ATAATGGCAT GACCAGATTC ATGATATGCT      300
GTGATGGTTT TGTTTTTGT ATCAATTTCC ACACTTCTTC TTTCAGGCC CATTAGAATT      360
TTGTCTTTGG AAAACTCCAG CTCCTTCATG GTAACCATTT CTTTCCATC AACAGCTGCT      420
TTTAATGCAG CCTGGTTCAC AAGATTCTCC AACTCTGCTC CGGAAAAGCC AACAGTACCT      480
CGAG

```

## (2) INFORMATION FOR SEQ ID NO:68:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 458 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:68:

```

GAATTCGGCC AAAGAGCCTA ATTGAATTCT AGACCGGCCT CATCGTTCTT TGCCTTCCTG      60
GTCACCATCT GCTACGCTGG AAATACATAT TTCAGTTTTA TAGCATGGAG ATCCAGGACC      120
ATACAGTGAT TTACCATTTT GATAATTAA AGGAAAAAAA AAGGAAGACT CTCAGTGTA      180
AAACAGCTGT AGGTATAATG TATATTCCCA GAGAATTGTA TTAACTAAT TAATGTTTTT      240
TATATTCTTA AATTGCTCA CAAATTGTGG TTTGTTACAA TTAACTGGA TACTTATTG      300
CAAAGTGTG TAGCTTATAA TGAACCTTA AGTATCTTAT TAATGTATTA ATGTCTTCAT      360
AGATCATATT TTCTTAGACA ATGTTTAAAT AGATAAATTG CTAATATTGA GAATGTGTCA      420
AGTTTGTAAG CCTAACTTTT AAGATGCCAG AACTCGAG

```

## (2) INFORMATION FOR SEQ ID NO:69:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 157 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:69:

```

GAATTCGGCC AAAGAGGCCT ACGGCCAAAG AGGCCTAGGT GGTGATTGAC CTAAGAAAAA      60
AGTGTCTTAA ATATCTGGAT TCTATGGGAC AAAAGGGCCA CAGGATCTGT GAGATTCTCC      120
TTCAGTATTT ACAGGATGAA AGTAAGAACC GCTCGAG

```

## (2) INFORMATION FOR SEQ ID NO:70:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 331 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:70:

```

GAATTCGGCC AAAGAGGCCT AGTGGACTGC TACTTCCCTT TAGCACTATA TACAAACATA      60
ACTGCTACTT CCCTTTAGCC CAGGATCAAA ATAATGATTC AGTTAAAAGT TGCTTGCCTA      120
ACAAAATTTT AAAATATGGA CTTCTGTGAA TTGCTAAAAC ACATCCTTTT AACTAGGCAT      180
CTTTAAGTCT ATAGTATCTT TAAAGTTAAT TTCAAAATTT AGCAGAGCCT GGAACACAAA      240
TTATTCAGGA AATAATTCCT GAACCTACCT CTATCTTCAT AAAACGTATT GGGGCAAGAA      300
CTATTCTATT GAATTCTAGA CTTGACTCGA G                                     331

```

## (2) INFORMATION FOR SEQ ID NO:71:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 467 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:71:

```

GAATTCGGCC AAAGAGGCCT ACCATCTGTC ACTAATATCA AAGGAGGGCC AAGGACACAG      60
CCCTGGGGGA ACTTACCAGG TCAACCCACA ATGGGTGAAT TTATAGTTTG TTAGTTAGTG      120
GTCAGTTACC AACTTCTCTG TCTGTCTAAT GCTTTGACTA AAATGTCCAG ATTATTTACC      180
TAGTTAACAA AATTAAAGAA GATTCTAAGA CCAGTTTAGC ATCATTCTCT CTGAAGTCCA      240
TAATGAATGT CTGTAAACT CTCGTCACTC TTATTTAGGT GCTTTTGGGT CATTTGTTGT      300
AGGTTCAATC TCCCAAATCA ATGTCACATA TACGTCTGTA ACTTGTTGTA TCAGCTTCCT      360
TCCTAGGGCT TTAACCTTCT TTCAGTCTTA TAGCATTCCT TCCATTTTCC TTTCAGTTCA      420
CTCCAATAAA AGCTCGACAA ACTCCTGGGA GCCCCTTGGT GCTCGAG                                     467

```

## (2) INFORMATION FOR SEQ ID NO:72:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 327 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:72:

```

GAATTCGGCC AAAGAGGCCT ACGATTGAAG TCTAGATGCA CACATTCAGC TTCTGTCTCA      60
GTCCTGAGAG TGGTTGTGTT TTATTGGCTG ATGAGTTATT TCCACATATC ACATGTATAA      120
GGTATTTGAA TGAAGGTGCT TTGTAGTCAT GACACACTAC TCTTTTACTA ATTATTAATA      180
TCTTAAGATT ACAATTTGAG AGGTAGAGAT GGTATTGTTT TTAATGGGTG TGGGGGGTGG      240
TGATGATAGG TATTTTTACC CTGTAAGTG ACCTACTAGG TTTTATTAAG TGTTGCAACT      300
TGTCAGTGT GTGGATGGGA TCTCGAG                                     327

```



## (2) INFORMATION FOR SEQ ID NO:73:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 206 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:73:

```

GAATTCGGCC AAAGAGGCCT AGTGGTGGA TGTATTTGAG TTCACAGTAT TTGTTTTATA      60
GCAGTTTTCG AAGCACATAC TGTGCCACGG ATTTTCCCAC ATTATTTTGA GACAAGGGAA      120
CACAGCCATC AAAACTGATA CCATGGCCGG GCGTGGTGGT GGGTGCCTGT AGTCCCAGCT      180
ACTTGGGAAC TCGGGACATT CTCGAG                                           206

```

## (2) INFORMATION FOR SEQ ID NO:74:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 184 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:74:

```

GAATTCGGCC AAAGAGGCCT CCACCATGCC CGGCCTCAAC GATATTGATT CTTGGGCTG      60
TAGTCAGTAT TGGATTATGA TCAATATTAT CACCATTTAT TTTGTTGCTC CAGTTCTTCC      120
AGCTGTGGCC AATCCTTCAG TTGGATTCTT GTGCCCCATC AACATTCTCC ATCCTTCTCT      180
CGAG                                           184

```

## (2) INFORMATION FOR SEQ ID NO:75:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 232 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:75:

```

GAATTCGGCC AAAGAGGCCG ACTTTATTAT ACCATACATA CTATAGGTAC CTGGGCACAA      60
GATAGGTCAG GGGGTACTGT ACCCCTATTT ACATGCTTAA TCACATCATA AGGTTGCAGG      120
TGGTACTTGA AATCATCACT AATGAGACAG CAAATATGTT AGACTTGCTG GCCCAGCAAG      180
CCACAGAAAT AAGGATCACC ATCTATTAGA ATAGACTGGC TTCAAACCTG AG              232

```

## (2) INFORMATION FOR SEQ ID NO:76:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 330 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:76:

GAATTCGGCC AAAGAGCCTA CTAAAATCC TTGTTTGTG TTTTAAATAT TCCATCGTTG	60
ATAGTTAATA TTCTTTTNGA GGTTTTGTTT TAGACAAAGT AATGTTTTTC TGAAATGATT	120
CTAAGACAAT TGGTCAGAAA TAGTCTCTGC TTGTTTGGTT TATGTTTGGT CAGTTGTGCT	180
TTGATTATAG ATGGTTCCTC ATCTGAGATT AAAGTGGGAC AGAACTTCAA AAGTAAAAGG	240
GTAAATGTTT GCTGTGATGC TTATGTGGCA CATGTGCTAG TCCTTGATAG TGGCGAGAAA	300
GATCTTAATT GCTCAAAGGA AGTACTCGAG	330

(2) INFORMATION FOR SEQ ID NO:77:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 507 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:77:

GAATTCGGCC AAAGAGGCCT ACAGTGCATT ATGTTATTTT GTTATCTCTG CAGTAACTTT	60
CTATCATGTT ATTTATTTTC TTGTCTTAT TTAAAGCTTC TGAGATTATG GATTTTGTGTT	120
TCCTTCCCTG AAGTTAAGTG TTATCATTCC TATATAGTAC TAAGCTGTCT ACAGAATAGT	180
GGGAGTCTGC CCTCTTGAGT TGGGAAGATC CTAGTTTGAA TCTTGGCTGT GCGACTTTAA	240
AGTTCATTAA CTTCTCTTAG CCTCAGTCAC CTGAACTCTG CAGTGGGGAT CCTTATGCCT	300
CAGAGTGTCA TTGGGAGGAC TCACGAAAAT ACGCTGTGAC TTGAGTTCA GTACCTAGCC	360
TGTATGAGCC AGCATTAAGA GGGACAGTCA TCACGCAGCG CTTGCACAC AGCTCTCACG	420
CCACATCCTT TGGCTACTGT TTTGGTAAAT CTTTACTAGT AAATGTTTCT TAAAAGCATT	480
TACATTCATG GACATGATTC CCTCGAG	507

(2) INFORMATION FOR SEQ ID NO:78:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 144 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:78:

GAATTCGGCC AAAGAGGCCT AGATTGAATC TAACCTTTT GCCTCTTCCC AAGTAGCCTA	60
TTTGAGCTAG AACAAAATT TGTTAGCCAT TTTGGGAGAG AATAGGGAAT CTAGAGAATG	120
AAGATCTGCC CGACCTGCCT CGAG	144

(2) INFORMATION FOR SEQ ID NO:79:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 297 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:79:

GAATTCGGCC	AAAGAGGCCT	AACGACGGTA	ATCAAGTTTT	GCTCCAGAAG	CATCAAGAAA	60
CTTAGCTACT	GCTTCCAAAT	CAGTACCGGT	TTCAGTTAAG	CCTTGAATAA	TACAGTCTTG	120
AAACTGAGTA	GGGTCAAACC	TCTCTTTTTC	ATCTCTTTTT	CTAGTTTTAA	AACGCTGGCC	180
TGATAGCGTT	GGCTTTTGCT	GCTTTTGATT	ATTCATAAAA	GACACCCGAA	TTTAAGGCGA	240
AGAGGAAAGA	GCCAGAAATC	CCCAGTGATC	CGGCAACTGC	GGCGCTATCT	CCTCGAG	297

## (2) INFORMATION FOR SEQ ID NO:80:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 119 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:80:

GAATTCGGCC	AAAGAGGCCT	AGACTGCTGG	TGGTGAAGT	CTTTTCTTGT	AGGTTGTGAG	60
GGCTGAAAAA	GCCAATCTTA	ATAGACATGA	GGCTCATGTT	TGCACAGTGT	GCTCTCGAG	119

## (2) INFORMATION FOR SEQ ID NO:81:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 323 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:81:

GAATTCGGCC	AAAGAGGCCT	ACTCAGCTGC	AAAAAAGCAT	ATTTTCTGTG	TTTCTGGACT	60
GCACTGTNGT	CCTTGCCCTC	ACATAGACAC	TCAGACACCC	TCACAAACAC	AGTAGTCTAT	120
AGTTAGGATT	AAAATAGGAT	CTGAACATT	AAAAGAAAGC	TTTGGAAAAA	AAGAGCTGGC	180
TGGCCTAAAA	ACCTAAATAT	ATGATGAAGA	TTGTAGGACT	GTCTTCCCAA	GCCCCATGTT	240
CATGGTGGGG	CAATGGTTAT	TTGGTTATT	TACTCAATTG	GTTACTCTCA	TTTGAAATGA	300
GGGAGGGACA	TACAGAACTC	GAG				323

## (2) INFORMATION FOR SEQ ID NO:82:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 409 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:82:

GAATTCGGCC	AAAGAGGCCT	AGGCAAATCA	GAACTCTTAA	GTTGTTTCAT	CCTTATTTTA	60
TTCTTAAAT	AAAGAATTTC	ATTTCAAATA	CGGATTAATT	TTTTTCTGG	GAAAAAACAC	120
ACTGTAAAC	ATAATTTTCT	ACCTTTTAAA	ACGTTTTACA	ATTTATCCCA	TCTTCTAACA	180
AGTTATGATA	CTCATACCTG	CCGAGGTTTC	TCTAAATTG	TCGCTGGTCT	TCTTTTTCCT	240

CCATTTCCAA GGCTTAAAGA TTTTACCAAT GGTGGATAGT TTCCCCTTTC TTTGAAGGG	300
AGGTGTTTGG GAACCTGCTG TGGGGCCATC TGAGTTTGCT ATAGAAGCTT TGTCCAGTCC	360
GTCAACTGAG CCGGAGATGT GGACCCGGAG CGGGCGGCC CTGCTCGAG	409

## (2) INFORMATION FOR SEQ ID NO:83:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 463 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:83:

GAATTCGGCC AAAGAGGCCT ATAAATATAT AATTGACTTA TTTATTAAAT TTAGGAGAAA	60
AAAAAAGTTT TCCTTGACAT TCAGCTCTAT TGGATTATT TCCATTAAAT TGCATCATGT	120
GTTATGTCTT GGTAACACT CCATTTCTTG TCTTGGTGGG CATCCTGTCT GTGTACCTGT	180
GCAGTACACT TTAATCATCA AGACTTCAAA GTGCTTTTGA GCTATCAAAT CTTGGGAGAG	240
TCCCATCTAG CATCTTAATA ATTATTTTTC CAAGTTCGTT ATAATTAACCT CCTTAAACCT	300
CATCTCATTA AATCAATTTT GTATTATCAT TCTGTTGTTT TCTGAAAGC AGCCAATTGT	360
TCAGCTCTTG AATCAGAATT TTCAAAGACT CACCTCTCTT ACCTGGGCTT GCACATATTT	420
GTCTAAGTA ATTCTCTATC CCTTAAACCT CTGAGCCCTC GAG	463

## (2) INFORMATION FOR SEQ ID NO:84:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 316 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:84:

GAATTCGGCC AAAGAGGCCT AATTTGTAA AAAGGAATAT CATCTTTTGA TTTTAGATCT	60
TAGACATCAG GCACTGACAT AGAGCTTAGA TATGTTCTTA AGGTAGCTAA GCCATTATT	120
ATAGGATAGT CAGATAGGAT AGTCTAGGA TTTATAGACC TTTTCAGATA CTCTTTATCC	180
AGTGAGAGAT GACCTATTTT TATTAAAACT TGGGTTTGGT ATCTTGGAAT TGGCTTGAAA	240
ATGATTTGTT TTTACATTGG ATGTGAACGG AAAGTTTGTA TCTCAAATGT TTTACCACCT	300
GAAGGACAG CTCGAG	316

## (2) INFORMATION FOR SEQ ID NO:85:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 494 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:85:

GTGGACATGG AAGTAGGTGA GGTGGGGGA CCTATGAAGA AAAAAAGAGC CTTTCCACTG	60
GGCAGTGAAG TGTGTACACA CACACTGGG GCAGAGCAGT GTGAAAACAT TCTGCACCAG	120
CACACAAATG ACTTTTGGCA AATCATCTNC CTGATCTGTC GGATGTTACG TCTCTGCAGA	180

ATCTGGAGAA	AACCAGAAAA	CCCAGCTTGT	TTGCCCTCAT	TTTGGCAGTT	TAATTTAGGA	240
ATCACACTGG	CTTTACATAA	ACTCTTTACC	AAAAAACTG	TATTCTGTAT	TTTGAAGGCA	300
CAAGTTAACA	TGGGCCCAAG	GGAAGGAAGC	ATTGTATACA	ATTACATAAT	AGCTACTCTA	360
TTACTTTAAA	ACCTAATGGC	AGCCTCGGGC	AGAAAAAGTCA	AAAGGGGAGA	GAAACCATTT	420
CTGTGAAATT	ATCTGATGCA	ATCATCTCTT	TGGAGACATT	GTCAGTTGAC	AATGGTTCTG	480
CTTTTCTCT	CGAG					494

## (2) INFORMATION FOR SEQ ID NO:86:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 507 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:86:

GAATTCGGCC	AAAGAGGCCT	ACGGGAGCAG	TTCATGCAGC	ACCTCTACCC	ACAGAGAAAA	60
CCTCTTGTGT	TGGAAGGGAT	TGATTGGGG	CCATGTACAA	GCAAATGGAC	AGTGGATTAC	120
CTAAGCCAAG	TTGGAGGGAA	GAAAGAAGTA	AAGATTCATG	TTGCTGCAGT	TGCACAGATG	180
GACTTCATTA	AACTTTACCT	TTTGACCACT	TGGTCCAGAG	GGCAGCTGAA	GAGAAACATA	240
AAGAATTCTT	TGTTTCAGAG	GATGAGAAAT	ACTACTTACG	GTCACTTGGA	GAAGACCCTA	300
GAAAGGATGT	TGCAGATATC	AGAAAGCAGT	TTCTTTGTT	GAAAGGAGAT	ATTAAGTTTC	360
CAGAATTCTT	CAAAGAGGAA	CAGTTCTTTT	CCAGTGTTTT	TCGAATTAGT	TCACCAGGAT	420
TACAACTATG	GACTCATTAT	GATGTAATGG	ATAATTTGTT	AATACAAGTG	ACAGGAAAAA	480
AGCGTGTGT	ACTCTTCAGT	CCTCGAG				507

## (2) INFORMATION FOR SEQ ID NO:87:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 282 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:87:

GAATTCGGCC	AAAGAGGCCT	AGCTTATCCA	GTCTAGTAAT	TTTTTTTGTA	TGTGTGCACA	60
GCACAAATAG	TTACAATAGT	TCCCTTTTTT	GACATCAAAT	TCAACAATAC	CTGGCATATA	120
ATTGCTAAAT	ACTGTCAATCA	TTTTCATTAT	CATTATCCCC	CACATAGTCA	TAAATAAGCA	180
CACATGCTAA	TCTTCAACTC	TTCTTCTATT	ATTGCTGCC	TTCTTACCTG	CGTTAGTGAG	240
AAAGTGCCTT	CAAATAGATT	GCCACAGTT	ATATGGCTCG	AG		282

## (2) INFORMATION FOR SEQ ID NO:88:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 333 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:88:

```

GAATTCGGCC AAAGAGGCCT AGTGCAGTAT TCACGTGTAA CTTTAAAGTT TTCAGTACAG      60
TGCTTTTATA CCTTTAATGC AATGTTGTAT TCATTGGGT ACTATTGTGT AGTATTTAGG      120
ATGTATGCAT GTTTGTTTAT ATGTAAGCTT GGTGGTGCT TTCGCTTTTG TGCTACCTTT      180
CTTGGATTTT TGTACCAGAG ATGTGCTAAA CTGATGAAAT ACATTGAGAA AGTTTCCATC      240
TTATTCTTTT ATATGGGACT GATGATGTGT GTTGGGGTAG ACTGCTCCTG CAGAGTTTGG      300
AAGAAGTCAC CAGCAAAGCC GGCCAATCTC GAG                                     333

```

## (2) INFORMATION FOR SEQ ID NO:89:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 391 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:89:

```

GAATTCGGCC AAAGAGGCCT AGGTTTCTAG ACTGGAAGAA CAAATGAATG GCTTAAAAAC      60
ATCAAATGAA CATCTTCAA AGCATGTGGA GGATCTGTTG ACCAAATTAA AAGAGGCCAA      120
GGAACAACAG GCCAGTATGG AAGAGAAATT CCACAATGAA TTAAATGCCC ACATAAACT      180
TTCTAATTTG TACAAGAGTG CCGCTGATGA CTCAGAAGCA AAGAGCAATG AACTAACCCG      240
GGCAGTAGAG GAACTACACA AACTTTTGAA GGAAGACAAG GAACGCNAGA AAAAAGACGA      300
AGAAAAGGTG AAGGCAGAGG AAGAATCAAA GAAAAAAGAA GAGGAAGAAA AAAAGAAACA      360
TCAAGAGGAA GAGAGAAAGA AGCAACTCCA G                                     391

```

## (2) INFORMATION FOR SEQ ID NO:90:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 339 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:90:

```

GAATTCGGCC AAAGAGGCCT AGCTTCTCTG CTTTATTTAT TCATTATTT TTAATTTTTT      60
GAGATGAAGT CTCGCTCTGT CATCCAGGCT GGAGTGTGGT AGCGCCATCT CAGCTCACTG      120
CAACTTCCAC CTCCAGGTT CAAGTGCAAT GTCTTTTAA TGTCTATGTG AAGGATTCTG      180
AGCTGTACGA GTTCTGCCCC AATCTGCAC TTGGGCCTCA GGATCAGGCC GCCTCCCAT      240
CAATCTGGTG GATGCCAGTT ATAACCTTTG CCCTGCACCC CATCCACACT GTAGTTCAGA      300
GAAATCAAC AGTCAGCAAT CATATCACA GCACTCGAG                                     339

```

## (2) INFORMATION FOR SEQ ID NO:91:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 203 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:91:

```

GAATTCGGCC AAAGAGGCCT ACGAGTCAGC ATCTAGACTC AGCTCCTTCT TCCCGCTGCG      60

```

CCTCACACAT GCGTGCATTG ACTCTCCTGT CCAGGCTCAT GTCCTTGTGC CCGCTTGCTG	120
CTTTGCCTCC TTGCTTGTTT CTGACTTGCT CACCCACTCT CTGTCATTGT CTTGCTTACT	180
CAGGCTCACC CTATCAACTC GAG	203

## (2) INFORMATION FOR SEQ ID NO:92:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 127 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:92:

GAATTCGGCC AAAGAGGCCT AGTTGAATTA TTGCCACATG TTAGGAATGT GGAAGGTTGC	60
TTGGATAAAT GAGAAAAGAA AGAAAAGAAT GCAAGTAATG TCCTGCTGGG GTAGTGCACT	120
CCTCGAG	127

## (2) INFORMATION FOR SEQ ID NO:93:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 179 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:93:

GAATTCGGCC AAAGAGGCCT AGATCCCACG AATTAGGCT CAGAAGCATC GTCCTCTCC	60
AGCCCTGCAG CTATTCACCA ATATCAGTCC TCGCGGCTCT CCAGGGCTCC CTGCCCTGAC	120
CTCTTCCCTG GGTTTTCTGC CCCAGCCTCC TCCTTCCCCC CCCCCCTATA TCCCTCGAG	179

## (2) INFORMATION FOR SEQ ID NO:94:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 326 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:94:

GAATTCGGCC AAAGAGGCCT ACTGGAATCA CTAACTTTG TCTCATTTTT TTTCTCTTCC	60
ATCAAATATC AATTTTGGAT TCAGATCCAG TTTTTTCTT TCAATTATT CTGCCTTTTA	120
AAATAATACT ACCTCCTTCC TCCCACAATT CATTTCAGCT TGTTTTAGTT CCTTGGGTTT	180
TATATTTTTT CTTCTAGTA TTACAATATA TGCACAAATA TTAGGTTATA AAACCTCCAA	240
TACAACTTTT ACTGCCACTC ACAGGTTTTT CAATTGTTTT CATTTTCATG TACATTTAA	300
TAATGTATAT ATTAGGATA CTCGAG	326

## (2) INFORMATION FOR SEQ ID NO:95:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 340 base pairs

(B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:95:

```
GAATTCGGCC AAAGAGGCCT AAATATGAAA AGCTGTCTAT ATCTACCCAG CCAAACCATC      60
TCCAGCTTTT ACTTTTATTG AGCAAGTATA CGTTATTTAT TTAGTCATCC ATTCATTTCAT      120
TTACTCATTI ATTTATTTTT TTTTCAGCTT ATTTCTGCTT TCATCTTAAT TCCTCTCTTA      180
AACTTTTTGG TATCACATTG GTTCTCCCTG ACCTCCACCA CTGTAACCTG ACTTAAGTTA      240
AATGTTTAAT TTATTTTTTT TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT TTTTTTTTTT      300
TTTAGGTAGA GAAGATGTCT CACCATGCTG CCCACTCGAG                                340
```

(2) INFORMATION FOR SEQ ID NO:96:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 240 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:96:

```
GAATTCGGCC AAAGAGGCCT ACTTCTTCC TTATTCTACT TCTCTTTTTT TCTTTGTTC      60
AACATCATGT TTGTGAAAGT TTCATGCATA TCGTTGCAAG TATTTGTATT TCATTCAATT      120
CTATTGTTGT ATAATGTTAC ATTGCATGAA TATGCAGCAA TTGTTCTAC TGTA AAAAGC      180
AATAAGGATT TAGTTATTTC CAGGTTGGAC ACAAATAATT TTGCTATGAA GGGTCTCGAG      240
```

(2) INFORMATION FOR SEQ ID NO:97:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 330 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:97:

```
GAATTCGGCC AAAGAGGCCT ATAACTATAT AGCCTAGAAT TTTTCCTATT CTGTTATTAA      60
GCCTCTATCA CTATTCTTTG ATTCTAGGTT TTATAATCCA TTCTTTTTTA TAACAACCTG      120
TTCTTGTTTT ACTTTTCCCT ATTTTGTGTT TATACCCATC TATCTTTTTT TAGGATCTAT      180
TCTCCACTTT TAACTTTGAG GATTCTAAAA TACTTACTTT AAAGTTATTT TTAAGTTGTT      240
CTATTTTGTG TTTTGTGAGG AGCGAATTG CCTTTTTTAT TTGGCTGTTC TACCATGCTT      300
TTTGGAATTT TGTTTGTAG GCTTCTCGAG                                330
```

(2) INFORMATION FOR SEQ ID NO:98:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 279 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear



(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:98:

GAATTCGGCC	TTCATGGCCT	ACTCTACTCC	AAGTAGGAAA	AGGCCAGGAG	GTCCTGTAA	60
AGGATGCACT	CAGAGCCCGG	GCTCCCTAAC	GTATGAGAGT	GCTAACCAGC	AGGTGTAGAC	120
TTTTCAGGAG	TGAAGAATGA	GGCAGGCATT	CCAAACCTGG	ACCTTCATCA	CCTTTTGTTT	180
CATCTCAAGA	CAATTCTGAG	GGACTGTTT	GGAGCGTGTC	TGGAAGGTGA	ACGTTGAAGA	240
AGAGTGTGGG	CTTTGATGTG	ACTCAGTTGA	ATACTCGAG			279

(2) INFORMATION FOR SEQ ID NO:99:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 320 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:99:

GAATTCTCAT	GAAACTCTCA	GCGGAAAGCT	ACAAGGAAAC	ACAGATGGTG	AAGATTAAAG	60
AGGAACCCAT	GGAGGTTGAC	ATCCAGGACT	CCCATGTCTC	GATATCACCC	AGCCGGAATG	120
TTGGCTACAG	CACTTTAATC	GGGCGAGAGA	AAACCGAACC	CTTACAGAAG	ATGCCAGAGG	180
GCAGAGTACC	CCCAGAGAGA	AACCTCTTCA	GTCAGGATAT	CTCTGTGAAA	ATGGCTTCCG	240
AGCTCCTCTT	TCAACTGTCA	GAAAAAGTGA	GCAAAGAGCA	CAATCATACA	AAAGAAAACA	300
CCATCCGGAC	CAATCTCGAG					320

(2) INFORMATION FOR SEQ ID NO:100:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 343 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:100:

GAATTCGGCC	TTCATGGCCT	AGAGCAACAT	AGTGAGACCT	CATCTCTACA	AAAAATAAAG	60
AGAAAATTAG	TTGGGGGTGG	TGGCGTGCAC	CTATAGTCCC	AGCTACTCAG	GAGGTTGAGG	120
TGGGAGGATC	ACTTGAGCCC	AGGAGTTTGA	GGCTGCAGTG	AGCTGTGGTC	ATGCCACTGC	180
ACTCTAGCCT	GAGTGACAGA	GCAAGATCCT	GTCTCAAAAA	ATAAAGTAAA	ATAAAATAAT	240
CAGTCAACAA	CAGTGATTG	TCTTCAAGCT	GCCCTCCTCT	TGGGCTCTCA	AGGCAGTTTG	300
TGAAGTGTCT	AGGATAGGAA	TTTCCAGAA	GGGCTTGCTC	GAG		343

(2) INFORMATION FOR SEQ ID NO:101:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 350 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:101:

GGAAGATGTG	CCAAAGTTCA	GAAAACATAA	TCTTATCTGA	TCAGATTAAA	GATCACAACT	60
CCAGTGAAGC	CAGATTTTCT	TCAAAGAATA	TTAAGGATTT	GCGATTAGCA	TCAGATAATG	120
TAAGCATGTA	TCAGTTTTTG	AGAAAAAGAC	ATGAACCTGA	ATCTGTAGT	TCTGATGTTA	180
GCGAGCAAGG	CAGTATTCAT	TTGGAACCTC	TGACTCCATC	CGAGGTACTT	GAGTATGAAG	240
CCACAGAGAT	TCTTCAGAAA	GGTAGTGGTG	ATCCTTCAGC	CAAGACTGAT	GAAGTAGTGT	300
CTGATCAAAC	AGATGACATT	CCTGGAGGAA	ATAACCCNA	CACTCTCGAG		350

## (2) INFORMATION FOR SEQ ID NO:102:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 442 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:102:

GAATTCGGCC	TTCATGGCCT	ACTCGCGGTC	TGTTAGTAGT	ATAGTGATGC	CAGCAGCTAG	60
GACTGGGAGA	GATAGGAGAA	GTAGGACTGC	TGTGATTAGG	ACGGATCAGA	CGAAGAGGGG	120
CGTTTGGTAT	TGGGTTATGG	CAGGGGGTTT	TATATTGATA	ATTGTTGTGA	TGAAATTGAT	180
GGCCCCTAAG	ATAGAGGAGA	CACCTGCTAG	GTGTAAGGAG	AAGATGGTTA	GGTCTACGGA	240
GGCTCCAGGG	TGGGATGAGC	GGGCCAAGAT	CGATGATCCC	ACAGACTCCA	AGCCTGAGGA	300
CTGGGACAAG	CCCGAGCATA	TCCCTGACCC	TGATGCTAAG	AAGCCCAGAG	ACTGGGATGA	360
AGAGATGGAC	GGAGAGTGGG	AACCCCCAGT	GATTGAGAAC	CCTGAGTACA	AGGGTGAGTG	420
GAAGCCCCGG	CAGCGTCTCG	AG				442

## (2) INFORMATION FOR SEQ ID NO:103:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 272 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:103:

GAATTCGGCC	TTCATGGCCT	ACAGAAAGTA	AGTTGGAACC	ATGTAAGAAA	AAAAGACACA	60
AATAAACTA	GGAAAGTGGC	ATGGAGCTAG	GCGTGAAGTT	GCTGCTCAGT	TTACATGTAT	120
GAAGTTCTGT	GTGGACTTAA	GCTCCTACTT	CAGTCATTTA	TTGTATGACT	TGGACAAGTT	180
GCCAAACATC	TCTAATATTC	ATTCATATTT	GTAGGGTAAA	AGGATGAGTA	ATATGTATCT	240
TTAGTGATATA	AAACATTTAC	AGACAACTCG	AG			272

## (2) INFORMATION FOR SEQ ID NO:104:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 290 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:104:

GAATTCGGCC	TTCATGGCCT	AAGACACCAG	CGAGCCCAGG	CAGGTAATGG	AAGCAACTGT	60
AGCTGACTGG	ACCTAAGAAG	CAGTGGCACG	GGTGCCAGGC	ACCCCAGCTG	ACCTGCCTTG	120
GTGCTCAGAG	CAGCAGGGCT	GGCCATGGTC	AGGGAGTCTG	GGGAGGTCAT	GCTCTGTCCA	180
CAGGGTTCTA	GCCAGCTTCT	GCCAAATTGT	CTGTTTTTTC	TCAAGAGAAG	CTGGGAAGGC	240
CAGTTGTGGT	GTCTCATACC	TGCAATCATA	GCACTATGGG	AGGACTCGAG		290

## (2) INFORMATION FOR SEQ ID NO:105:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 326 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:105:

GAATTCGGCC	TTCATGGCCT	ATGAAAATTT	GGAAGAAGAA	TCCAATGAAA	GTGGTAGCCC	60
TTTTGACCCT	GTTTTTGAAG	TTGAACCTAA	TCTCTAACGA	TAACCCAGAG	GAACATGTAC	120
TGAAGGTAAT	TCCTGAGGAT	GCTTCAGAAT	CTGAGGAGAA	GCTAGACCAA	AAAGAGGATG	180
GTTCAAAATA	CGAAACTATT	CATTTGACTG	AGGAACCAAC	CAAACATAATG	CACAAATGCAT	240
CTGATAGTGA	GGTTGACCAA	GACGATGTTG	TTGAGTGGA	AGACGGTGCT	TCTCCATCTG	300
AGAGTGGGCC	TGGATCCCAA	CTCGAG				326

## (2) INFORMATION FOR SEQ ID NO:106:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 377 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:106:

GAATTCGGCC	TTCATGGCCT	ATGGCAATGG	TGGTCGTGGT	GCTGGGTGGG	ATGNGGTCTT	60
CATCCTCTTC	CTCCAGGAAG	GATGCCTCTG	GGATATGGCT	GAAGGCCTCT	GGGTGCAGCC	120
TGGCCAGTTT	CCCTTTCAGC	GTCCTGATAC	GGCGGAAGAT	GATGTCCAGG	TCCCGTTTCA	180
TCTCTACTAG	GGTCTCTCGT	TGGTGCAGGA	AGCGTTCGCT	CATCTGCTGC	AGGCGGGCAT	240
TGGACAGGTT	GTTGAAGTTG	AGCAGCATCT	CATTGGTCTT	CTCAAAGCGG	TCCAGCATGT	300
TCTTCTGGGA	CAGGATGATG	GCGTTGACAT	CATCTGTGTT	CACCATGCTC	AGGATGCGGC	360
CGCAGAAGAC	CCTCGAG					377

## (2) INFORMATION FOR SEQ ID NO:107:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 601 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:107:

GAATTCGGCC	TTCATGGCCT	ACATGACACC	ACCTGAACGT	CTCTTCCTCC	CAAGGGTGTG	60
TGGCACCACC	CTACACCTCC	TCCTTCTGGG	GCTGCTGCTG	GTTCTGCTGC	CTGGGGCCCA	120

```

GGGGCTCCCT GGTGTTGGCC TCACACCTTC AGCTGCCCAG ACTGCCCCGC AGCACCCCAA 180
GATGCATCTT GCCCACAGCA ACCTCAAACC TGCTGCTCAC CTCATTGGAG ACCCCAGCAA 240
GCAGAACTCA CTGCTCTGGA GAGCAAACAC GGACCGTGCC TTCCTCCAGG ATGGTTTCTC 300
CTTGAGCAAC AATTCTCTCC TGGTCCCCAC CAGTGGCATC TACTTCGTCT ACTCCCAGGT 360
GGTCTTCTCT GGGAAAGCCT ACTCTCCCAA GGCCACCTCC TCCCCACTCT ACCTGGCCCA 420
TGAGGTCCAG CTCTTCTCCT CCCAGTACCC CTCCCATGTG CCTCTCCTCA GCTCCCAGAA 480
GATGGTGTAT CCAGGGCTGC AGGAACCCTG GCTGCACTCG ATGTACCACG GGGCTGCGTT 540
CCAGCTCACC CAGGGAGACC AGCTATCCAC CCACACAGAT GGCATCCCCC ACGCACTCGA 600
G 601

```

## (2) INFORMATION FOR SEQ ID NO:108:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 101 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:108:

```

GAATTCGGCC TTCATGGCCT ATTTTTTTTT TTTTATCAA AAGTTTGTTC TATTTTCAAT 60
ACAAGATAAA TACCATGCTT GTTACTAGTG CAGTTCTCGA G 101

```

## (2) INFORMATION FOR SEQ ID NO:109:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 512 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:109:

```

GAATTCGGCC TTCATGGCCT ACAGAATTGG AGGCATGATG AAGACTCTGC TGCTGTTTGT 60
GGGGCTGCTG CTGACCTGGG AGAGTGGGCA GGTCTGGGG GACCAGACGG TCTCAGACAA 120
TGAGCTCCAG GAAATGTCCA ATCAGGGAAG TAAGTACGTC AATAAGGAAA TTCAAATATGC 180
TGTCACGGG GTGAACAGA TAAAGACTCT CATAGAAAAA ACAAACGAAG AGCGCAAGAC 240
ACTGCTCAGC AACCTAGAAG AAGCCAAGAA GAAGAAAGAG GATGCCCTAA ATGAGACCAG 300
GGAATCAGAG ACAAAGCTGA AGGAGCTCCC AGGAGTGTGC AATGAGACCA TGATGGCCCT 360
CTGGGAAGAG TGTAAGCCCT GCCTGAAACA GACCTGCATG AAGTTCTACG CACGCGTCTG 420
CAGAAGTGGC TCAGGCCTGG TTGGCCGCCA GCTTGAGGAG TTCCTGAACC AGAGCTCGCC 480
CTTCTACTTC TGGATGAATG GTGACACTCG AG 512

```

## (2) INFORMATION FOR SEQ ID NO:110:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 485 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:110:

GAATTCGGCC	TTCATGGCCT	AAATTATTAA	AGGTGACAGT	ACACAGGAAA	CATTACAATT	60
GAACAATGCC	TCAGCTATAC	ATTTACATCA	GATTATTGGG	TGCCTATTG	TTCATCATTT	120
CTCGTGTTCA	AGGACAGAAT	CTGGATAGTA	TGCTTCATGG	CACTGGGATG	AAATCAGACT	180
CCGACCAGAA	AAAGTCAGAA	AATGGAGTAA	CCTTAGCACC	AGAGGATACC	TTGCCTTTTT	240
TAAAGTGCTA	TTGCTCAGGG	CACTGTCCAG	ATGATGCTAT	TAATAACACA	TGCATAACTA	300
ATGGACATTG	CTTTGCCATC	ATAGAAGAAG	ATGACCAGGG	AGAAACCACA	TTAGCTTCAG	360
GGTGTATGAA	ATATGAAGGA	CTGATTTTC	AGTGCAAAGA	TTCTCCAAAA	GCCCAGCTAC	420
GCCGGACAAT	AGAATGTTGT	CGGACCAATT	TATGTAACCA	GTATTTGCAA	CCCACACCGC	480
TCGAG						485

## (2) INFORMATION FOR SEQ ID NO:111:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 340 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:111:

GAATTCGGCC	TTCATGGCCT	ACACACATTG	TGAGCTGTAT	ACGTTAACCC	AAAGTCTGCA	60
TTCAAAGTGG	AATTATAACT	GGGCAGTGAA	TGAGTTGCTC	AGTCCATCTA	TTAACCATAC	120
TCTTTTAGGC	TTTTTATTGC	CTCTAATTGT	TGTAATAATT	AACATTTTCC	CAGGAAGTTG	180
TTTTACAGAA	GAAGGGGCTT	TAGCGGCTTT	CAACTCTTTA	GAGATAAGTT	CAACTTTGTG	240
GATTGACCAC	AGCACATCTT	GTTTAGTAGT	GAGCGGGAGC	CATATGAATC	CTCTAGAGAC	300
ACAGCCGTGT	CTGAGATGGA	CATTGCCAAC	ACAGCTCGAG			340

## (2) INFORMATION FOR SEQ ID NO:112:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 533 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:112:

TTCGGNCTTC	ATGGCCTACT	CTCATAAAAA	TATTCAAAGA	TCAACCCCAA	ACGTGCCTGC	60
ANTTTGGACA	ATGTNAGCTA	AAGCTATAAA	TGGAACAGCA	GTGGTCATGG	ATGATAAAGA	120
TCAATTATTT	CACCCAATTC	CAGAGTCTGA	TGTGAATGCT	ACACAGGGAG	AAAATCAGCC	180
AGATCTAGAG	GATCTGAAGA	TCAAAATAAT	GCTGGGAATC	TCGTTGANGA	CCCTCCTCCT	240
CTTTGTGGTC	CNTCTTGGCA	TTCTGTAGTG	CTACACTGTA	CAAAC TGAGG	CATCTGAGTT	300
ATAAAAGTTG	TGAGAGTCAG	TACTCTGTCA	ACCCAGAGCT	GGCCACGATG	TCTTACTTTC	360
ATCCATCAGA	AGGTGTTTCA	GATACATCCT	TTTCCAAGAG	TGCAGAGAGC	AGCACATTTT	420
TGGGTACCAC	TTCTTCAGAT	ATGAGAAGAT	CAGGCACAAG	AACATCAGAA	TCTAAGATAA	480
TGACGGATAT	CATTTCATA	GGCTCAGATA	ATGAGATGCA	TGAAACACTC	GAG	533

## (2) INFORMATION FOR SEQ ID NO:113:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 346 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:113:

GAATTCGGCC	AAAGAGGCCT	AGAAAATAGA	AAATCAGSTA	GCTATGTCAT	TTTATAAGCA	60
TCAGTCCTCA	CCAGATTGT	CAAGTGAAGA	AAGTGAACA	GAAAAGGAAA	TTAAAAGGAA	120
AGCTGAAGTT	AAGAAAACCA	AAGCAGGAAA	CACCAAAGAA	GCAGTGGTTC	ACCTGAGAAA	180
GAGCACAAGA	AACACAAGTA	ATATTCCAGT	GATTTTGGAA	CCTGAAACTG	AAGAAAGTGA	240
AACAGAAAAG	GAAATTAAAA	GGAAAGCTGA	AGTTAAGAAA	ACCAAAGCAG	GAAACACCAA	300
AGAAGCAGTG	GTTACCTGA	GAAAGAGCAC	AAGAAACACC	CTCGAG		346

## (2) INFORMATION FOR SEQ ID NO:114:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 433 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:114:

GAATTCGGCC	AAAGAGGCCT	AGGCAGGTAT	TCTTTGCTTT	GGGAAATTCT	TCTTTCTGTC	60
CTCCCTTCCC	TCACTTTTTC	CAAATTCTGG	GCACAACAGC	AGCTCTCTCT	CTTCTGTGGC	120
AGGTGTGCAT	CCTATTGGCT	GGCTGGTATT	TCTTGTTTT	TTTCCCCCTT	ATTCTTTTAA	180
AATGGGGGTG	GGGTATAAA	AATATGTGTA	TGGGGTACAT	GCAATAATGT	TGTAATGTTT	240
CTTGTTGTTT	AATGATAAT	TAATTGCAAA	ATAATTGTTT	TAAITATAAC	ATGTTTGAGT	300
AAATGCTAAA	TTAGTATTTT	TTTCTAATAT	AATAATGAAT	TTGAAATCTA	GCATTCTGT	360
AACAATGTGT	CTATGTTTGT	CTGTCTGTGT	CTGTCTAATA	GTAATTAATA	TCTGTGGTCC	420
GCACCCACTC	GAG					433

## (2) INFORMATION FOR SEQ ID NO:115:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 312 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:115:

GAATTCGGCC	AAAGAGGCCT	AAGCAAAGCT	TAGCTTACGG	GGAAAAAAA	AAAAAAA	60
AAGTAGAGCT	TNCCTTGAAT	CTGGAGAAAT	TAAGCACACA	GGTGCCTGC	AATATTAGTT	120
AAGAGACTAC	TGCACCCATC	ATACTGTAGC	TTAAGACAGT	TTCTTCTTTT	AGTTTTTCT	180
AAAATGTCTC	CATGTCTGTG	TTATGCCACA	AATAACACAG	CCTTGGTTAA	CTTTTGAGCT	240
AAAAAAATC	AACTTATTGG	CCAAGCATGG	TGGCTTACAC	CTATGATTGT	AGCACTTTGG	300
ATAGGTCTCG	AG					312

## (2) INFORMATION FOR SEQ ID NO:116:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 238 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:116:

GAATTCGGCC AAAGAGGCCT AATTTTCCTA ACTGTGTGCT GCCTTTTGGG TTAATTAGAA	60
TTGTAGCATT TCGTTTIGAT TATTTTTTTG GCTCTTTAGC TGTTCTCTCA CATTTTTTAA	120
AATGGTAACT CTAGGGATTA TAATATGCAT CTTTAATTTA TCAAAGTCTG TTTTACTAC	180
TTCGTGTAAA ATAAACGAAC CTTGCATTA TAGTTACATT TATTCCTCTC ATCTCGAG	238

## (2) INFORMATION FOR SEQ ID NO:117:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 184 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:117:

GAATTCGGCC AAAGAGGCCT ACTCAAAAGT AGATGAGCAA TTGGTCAGAA TTGTTAGAGG	60
ATATTATTTG AGCTAAATGT TTCCTCTCTC TGTTTCAGTG GTGTATGTGC AAGTGTGTGT	120
ATATGTTTTT TGTTGGGGAC AGTTTCAGGT AGATGGTATG AAGAGGCAGC AGGAGACTCT	180
CGAG	184

## (2) INFORMATION FOR SEQ ID NO:118:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 341 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:118:

GAATTCGGCC TTCATGGCCT AATTTTCTAA AACCTGGAGA CAAACCACAT AAATACAAAA	60
CAAGTCTGCT TCTTCAAAT TCTGCTGGTG AGAACTCAGA TATCAGTGAT CTTATTAGCT	120
TTTTACAAG CCAGAACATA ATGGTGACGA TGATTAATGA CAGTGACTAT GTATCCGTGG	180
CTCCCATAG TGCGGCTTTA AATGTGATGC ATTCAAGAAA GGACTATGTT TTTGCAGCTG	240
TTTTCAACAG TACTATGGTT TATTCTTTAC CTATATTAGT GAATATCATT AGTAACTACT	300
ATCTTTATCA TTAAATGTG ACTGAAACCA TCCAGCTCGA G	341

## (2) INFORMATION FOR SEQ ID NO:119:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 287 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:119:

GAATTATGCT GTGCTGTTTT CCTGGACACT CAGAATCAAA CAGGCCTTCC ACCCCATCCC	60
ATCATGTTGA ATTACAAAGT ATTTTGAGCA TCGTTTGGTT TGTTTCTTTC CACCCATACC	120
TGTGTAGGGC AGCGGTAGCA GTCTTCAACA ATGCATCCTC TTGGACAATG CATTGTAATA	180

TCTCTCTTTC AAATTCTGTT TCACATAGTC ATTTCTCATG TTCTGTTGGA GACCCCCAAA 240  
 AAATTCATTC CACACTGTCA TCCCTTTGTC CTAACCAGAA TCTCGAG 287

## (2) INFORMATION FOR SEQ ID NO:120:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 196 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:120:

GAATTCGGCC TTCATGGCCT AATGTATGGT AGACAATTTT TTTTAAAGAC ACAGAGATAA 60  
 ACGTTTTCCT GCTTTGGTTA CCTTTCCTTT CCCCTTTAAA AGGAATTAGC TATAGAAGCTG 120  
 CTTTGTAAG ATGCTTCTTG ATATTTTACT TTTGTTCCCTT TTCCCTAATC ATTCCTTTT 180  
 CACCCCACTC CTCGAG 196

## (2) INFORMATION FOR SEQ ID NO:121:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 117 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:121:

GAATTCGGCC TTCATGGCCT AGTGATTGGG TGCAGAGGAA ACAGGAACCA GAGAAGGGTC 60  
 ATCTCAGCTG CCTGTCCAC TCCCTATGCT TGGTGTACC TGCGCCATAG TCTCGAG 117

## (2) INFORMATION FOR SEQ ID NO:122:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 234 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:122:

GAATTCGGCC TTCATGGCCT AGTAAGTGCT CTGAGTATAT TAGGAAAAGG AAATCTTATA 60  
 CATAAAAATC AAAGCTGTTG CTAATTTTTC CACTAGTGAG TCAGTCTATT AACATTACTC 120  
 ATGGTAGGTT TTGCCATACA GAATTTTAAT TTTTATATAT TATTTTGGC TTGTTATTA 180  
 TGCTTAGAAG TCCATGGGGA CCCAAAGATC AGAAAAGATT CATCTGTACT CGAG 234

## (2) INFORMATION FOR SEQ ID NO:123:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 265 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear



(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:123:

```
GAATTCGGCC TTCATGGCCT ACGGAACGAA CATTGGCTCG GCGGTGGTGA TGCTAATTCC      60
CACTGTCATG TTCACAGTGA TGGCCGCTCTT TTCCTTCATC GCCCTCAGCA TGGTTCATAA      120
ATTTTACCGG GGAAGTGGGG GGAGTTTCAG CAAAGCTCAG GAGGAGTGA CCACAGGGGC      180
CTGGAAGAAT CCACATGTGC AGCAGGCAGC CCAGAACGCA GCCATGGGGG CAGCCCAGGG      240
TGCCATGAAT CAGCCAAGAC TCGAG                                         265
```

(2) INFORMATION FOR SEQ ID NO:124:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 257 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:124:

```
GAATTTGCCA CACCATGAAG CTCTGTGGC AGGTAAGTGT GCACCACCAC ACCTGGAATG      60
CCATCCTGCT CCCGTTTCGTC TACCTCACGG CGCAAGTGTG GATTCTGTGT GCAGCCATCG      120
CTGCTGCCGC CTCAGCCGGG CCCAGAACT GCCCTCCGT CTGCTCGTGC AGTAACCACT      180
TCAGCAAGGT GGTGTGCACG CGCCGGGGCC TCTCCAGGT CCCGCAGGGT ATTCCCTCGA      240
ACACCCGGTT CCTCGAG                                         257
```

(2) INFORMATION FOR SEQ ID NO:125:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 248 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:125:

```
GAATTCGGCC TTCATGGCCT AGGAAAGATT CGTGTTTTAC TTTAATAAAC CTGAAAGAAC      60
TGTCGTTTTT CACTGCCTAT AGGACCACTA CAAAGCCGCA AAGAAAAATT AGACTTGTTT      120
CATTTTATAA CAACAACAAC TGCTACTACT GCTACTAGTT AGATACCGTT TGCTCATTTA      180
TAACAATCTC AGTTGGTAGG ATGAAGCTTA AACACTTGGC ATTCATCGTC TTTTTCAGTC      240
CTCTCGAG                                         248
```

(2) INFORMATION FOR SEQ ID NO:126:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 337 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:126:

GAATTCGGCC	TTCATGGCCT	ACTGTCTTTT	CATGCAGATT	TCATATTGTC	TTTGTCTTTT	60
TCATTGCTTC	TTGACCTTCC	TGGCAGGTGT	CGCTCAGTTT	CTTCCTGTTT	CCCTTCCTGT	120
CCTCTCCACA	CCTGCTATCC	CGTCCCACTC	CCATCTACCT	CCCGGGAAGC	CAGCCCTGCA	180
TGCTGAGTTT	GTGACCTGCT	TCATTCCCAT	TTCATTTCTA	GAGGGTTTAG	AGGTGACCTG	240
GAACCGTTCC	CTTTCCTCT	CCTACCCCT	CCTCTGCAAC	ACCAAGAGGC	CTGGAGGGGC	300
AGACAGAAAG	CAGCCAGCCA	CGGCGGGAAG	TCTCGAG			337

## (2) INFORMATION FOR SEQ ID NO:127:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 253 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:127:

GAATTCGGCC	TTCATGGCCT	AACTATTTC	TTTTGTTGAT	TGCCTGTCTT	TCTTTTCTT	60
TCCTTCCTTC	CCTCCCTCCT	TCCCTTCCTT	CCTTCCTTCT	GTAGAGATGA	GGTTTCACCA	120
TGTGGCCAGG	TTGGTCCTGA	GCTTAAGTGG	TCCTCGCACC	TCAGCCTGGC	AAACTGCTGG	180
GATTACAGGT	GTGGGCCATC	ACGCCTGGCC	TTACAGTAAA	TTCTTGATAA	ACAACCCAGC	240
AACACACCTC	GAG					253

## (2) INFORMATION FOR SEQ ID NO:128:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 319 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:128:

GAATTCGGCC	TTCATGGCCT	AGGACGGGGG	ACTCAGGTTT	TACACTGGAA	CCTGGGGTCA	60
TGTATCATGT	ACCAGGTGGG	GAGAAGTGTA	GCAAATCTCA	GTGCCAATTT	GAGGGGAAGC	120
CAGTCATTCC	AGGAGAAGAG	CTGAGGGGAA	AGAGCTGTTG	ACTTTCATAA	TGCAGTCTTA	180
ATTATCCAGT	CACCTCTCTG	CCACATGGCA	GAAGCCAGGT	GGCAGTGATG	GTGGTGGGGG	240
AAACAAAACA	CACAGTCTCT	GGCAAGCCCC	ACCGGGAAAG	GAGGGCTCAG	AAGGCGTAGC	300
GGGTCCGGAT	ATCCTCGAG					319

## (2) INFORMATION FOR SEQ ID NO:129:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 348 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:129:

GAATTCGGCC	TTCATGGCCT	ACAATAAAAG	CCCATAGGGA	AGAGAGAGAG	GATATAGGGA	60
AACAGAATCA	GATGTGTAAT	ATACTTGGCA	CAGCGAAAAA	ATGGATTTAA	AAGACAAAAA	120
TGGAGGTCCA	GGTAGATGTA	ATTCACACAG	ACTGAAAGTG	AGTTCGGGCT	TGTGTAAAAA	180

ACATGAGATT GGATTTGACC CCTTGGCTCT CAAGTGTCCC CTTAGATCTA GAACTGCTCC	240
TTGGTGGCCA TTAGATCGAG TCAGTTTGA TCTGCATCAC TTAGTTATTG GGAATTCTT	300
TGTTGGAAAC AGGAAAATT TTTAGATTA TTTGGCGTAC GGCTCGAG	348

## (2) INFORMATION FOR SEQ ID NO:130:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 420 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:130:

GAATTCGGCC TTCATGGCCT AGGCACAGTG AAACCCGTGG AAATCAAAG GTGAGCAGGA	60
CAGTGGGTCC TGTATCTTGA TCTTTACGGA TCTTTCTCTT CTTGAATCCT CACAGCACCC	120
ATTTTATAGA CAGGAAGACT GAGGCCCGAA AGTTCTGTCT GACTCTGAGC CTGGCCTCTT	180
TGCTGCCTCC CGTTGTCCTG TGAGGCTGTG TGGTCACAGC ACCCAGGACT TGAGAGGAGT	240
GAAGTTCTTC CTCACCCCGC AAAGGCTTCA TGAGCCCTAC TGTGTGCCAG GCCAGCCCTG	300
CTCAGTCTGG GCGGATAAAC ACAGGGCAGA TTCTGAAAGC CTGTGTGAGG GAAGTTCTAG	360
GCCTGCAGGA GCTGAGAGGA GACCCTGGAG AGGAAGGGAG TCAGGGCCAG CTTCTCTGAG	420

## (2) INFORMATION FOR SEQ ID NO:131:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 433 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:131:

GAATTCGGCC TTCATGCCTA AGCTGATGGA GACTGTAAAT GAACCAGAAA CAGGTGAAGT	60
GAGCAAAGAT GCAGTCATTG TAAAGCAGGA GAAAATAAT GAATATTGCC TTCAGGATAT	120
TGATGATAAA TTGTCAGAAT CAGCAGAGGA TGATGGTGAA GATGATACCA ATGATGAAGA	180
TGATGATGAA GATAGTAACC CTA AAAAGAA TACTCAGGCC CCACTAGAGT TAATGGCAGA	240
ATTCTGAGA GCAGAAATGG CCCGAGAGTA CCAGCTGGCA AAAAAATTAT GTCAGATGAT	300
CCTAATCTAT GAACCAGAAA ATCCTGAGGC CAAGGAGTTT TTCACACTTA TTGAAGAAAT	360
GTTGCTGATG GAGAAACTC AGAATCATGA GCAAGACGGT GAAAACAGTG ATGAAGACAG	420
CAGCGGGCTC GAG	433

## (2) INFORMATION FOR SEQ ID NO:132:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 280 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:132:

GAATTCGGCC TTCATGGTCT AAAAAATCAA CTGCAAGCAG CCATCATCAG TTTGGAAGAA	60
GCTTTGGGAA GCCTTCAAAG AAAACCTCG GTATCCACCA AGTCAGGCTC AAGCAGCTCT	120

TCAAGACAGT	CCCCCTGAAG	AGTACTCCTA	TAAGAAATCA	ATAAGAAACC	TGTTTAAAAA	180
CATTCCTTTT	GTCCTTCTGT	TGATCACTTA	TGGTATCATG	ACTGGTGCCT	TTTATTTCAGT	240
CTCAACGTGA	TTAAATCAAA	TGATATTGAC	ACAACTCGAG			280

## (2) INFORMATION FOR SEQ ID NO:133:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 398 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:133:

GAATTCGGCC	TTCATGGCCT	ACGCGAGCGG	CAGGTGTGCA	CAGGAGGTTT	TCCACTTTGT	60
NCTCTGAACT	CGCGGTCAGG	ATGGTTTTCT	CTGTCAGGCA	GTGTGGCCAT	GTTGGCAGAA	120
CTGAAGAAGT	TTTACTGACG	TTCAAGATAT	TCCTTGTCAT	CATTGTCTCT	CATGTCGTTT	180
TGGTAACATC	CCTGGAAGAA	GATACTGATA	ATTCCAGTTT	GTCACCACCA	CCTGCTAAAT	240
TATCTGTTGT	CAGTTTTGCC	CCCTCCTCCA	ATGGTACTCC	AGAGGTTGAA	ACAACAAGCC	300
TCAATGATGT	TACTTTAAGC	TTACTCCCTT	CAACGAAAC	AGAAAAAACT	AAAATCACTA	360
TAGTAAAAAC	CTTCAATGCA	TCAGGCGTCA	ATCTCGAG			398

## (2) INFORMATION FOR SEQ ID NO:134:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 403 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:134:

GAATTCGGCC	TTCATGGCCT	AGGGCGATGG	TGGGCAGAGG	ATCCTTAGTG	CTCAGTCGGG	60
CTCCACCAGA	ACCACGGACT	TGAAGGAGAA	GAGACTCTCG	GTTCCAGGTA	GCAGAAAACG	120
TGGAGTTTTG	GACACAGATC	CTCCTGGCCA	GAGAAGGATG	CTTGAGAATC	TGAGATTTAC	180
ACAGCTGTAT	TAGGTTGTCC	ACGATGACCG	GGCAGTAGGT	CTCTCTCTTG	GGGATTTCTT	240
CAGTGGTCTG	CCAGAGACGG	GCGTGAGAGA	TCACATTTCAG	AACGCACTCG	TCTTGGTTCT	300
CTATGTGGTT	CCTTGGATCA	TCAACAAGGC	TAAGCACTTT	CTCGGGAAGG	CCTTCTATTA	360
ACTTGGTCTT	GGTGAGCCAG	AGGGCCTGCT	TTACACCCTC	GAG		403

## (2) INFORMATION FOR SEQ ID NO:135:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 205 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:135:

GAATTCGGCC	TTCATGGCCT	ACTCCATTTT	TCGAATGGCT	TATTTAGGCC	CAGCTCTTGC	60
GTTTGCATTG	TCCCTTCAGG	CCCAGAACTT	TCTCACGTCA	TCGTCACCAG	GCCTAGCTTC	120
TGCATCTGGT	CAGCCTTTTA	AGGCCCAGCT	TTTGCCTCAT	AAACTCAGCT	CCTGTTTAAT	180

GGCGGCTCC CGGGTCCAC TCGAG

205

## (2) INFORMATION FOR SEQ ID NO:136:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 112 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:136:

GAATTCGGCC AAAGAGGCCT AGTTTATTA CTTTGGTTAA GACATCAGTT ATTTAGTCT 60  
TTGATAATTC ATTATCTAGA TAATGGTTAC TTTGTATTGT CTGTTTCTCG AG 112

## (2) INFORMATION FOR SEQ ID NO:137:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 111 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:137:

GAATTCGGCC AAAGAGGCCT ACACAGAGCC CTTCACTACT TTAAATTCTT CTAAATTGG 60  
TGGTTCATGT TAATTAAATT ATTATTATTT TTTTGTGAGA CGGAACCTCGA G 111

## (2) INFORMATION FOR SEQ ID NO:138:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 324 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:138:

GAATTCGGCC AAAGAGGCCT AAAGATGTTT TCCATGAGGA TCGTCTGCCT GGTCTAAGT 60  
GTGGTGGGCA CAGCATGGAC TGCAGATAGT GGTGAAGGTG ACTTTCTAGC TGAAGGAGGA 120  
GGCGTGCGTG GCCCAAGGGT TGTGGAAGA CATCAATCTG CCTGCAAAGA TTCAGACTGG 180  
CCCTTCTGCT CTGATGAAGA CTGGAACCTAC AAATGCCCTT CTGGCTGCAG GATGAAAGGG 240  
TTGATTGATG AAGTCAATCA AGATTTTACA AACAGAATAA ATAAGCTCAA AAATTCACCTA 300  
TTTGAATATC AGAAGAATCT CGAG 324

## (2) INFORMATION FOR SEQ ID NO:139:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 108 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:139:

```
GAATTCGGCC AAAGAGGCCT AGGTCCAGAA ACATTTAAAA AAAAAAAAAA GGGGGCTTGA      60
GAAAAGGGCT TCCAGTGCCA GGCAGAAATA TGTTTTTCTT AATAGGGC      108
```

(2) INFORMATION FOR SEQ ID NO:140:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 314 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:140:

```
GAATTCGGCC AAAGAGGCCT ATGAAAACGT GGATTGCTT TGTAACCTG AGAATACATT      60
TTGTTGCCAA CAAAAGAGA GAAGAGAAGA GGAAGATATT GAAGAGAAGA AATCGATTAA      120
GAAAAAATT AAAGAACTTA AGTTTTAGA TTCTAAAATT GCCCAGAACC TTTGTAAGTA      180
TCATATTCCA ATACCATTCA AAGACAGTGG AAATATTCTT TTAAATGATT TCATTTTCTT      240
TAAGACCGAT TATTCATTAT TTGCTATTTT CATTTTGTTA TTATATGCAT GATAAATTCA      300
CAGATACTCT CGAG      314
```

(2) INFORMATION FOR SEQ ID NO:141:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 350 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:141:

```
GAATTCGGCC AAAGAGGCCT AGGGTAAGAC TAGAGTGTTT TAAATCATCA ATAAAAAGTG      60
GAGAAAACAA AGGTATTCA GCGATTGAAT TCTAGACCTG CCTCGAGCCC TGCCTTTCCT      120
TTACTTTTAC TTTTTTTTTT TTTTCTTTG GAAGAGAGAA GAACAGAGTG TTCGATTNTG      180
CCCTATTTAT GTTTNTANTC GGGAACAAAC GTTGTTGTG TGTGTGTGTG TTTTCTTGTG      240
TTGGTTTTTT AAAGAAATGG GNAGAAGAAA AAAAAAATTC TCCGCCCTT TCCTCGATCT      300
CGCTCCCCC TTCGGTCTT TCGACGGGTC CCCCCTCAAC CTGCCTCGAG      350
```

(2) INFORMATION FOR SEQ ID NO:142:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 167 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:142:

```
GAATTCGGCC AAAGAGGCCT AGAGAGTCTG GATGACAAGC AAAGCTCAAT CTCAAAACAA      60
```

TAATTTTAA AGTAATGATT ATCTTAACCA TTCTTAAATC CTTCTGTCTA GTAGGAATCT 120  
TATTCATGGG AGTGTCTGGA AAAGGGACAA AGAGCGGCTA TCTCGAG 167

(2) INFORMATION FOR SEQ ID NO:143:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 216 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:143:

GAATTCGGCC AAAGAGGCCT AGTGTTCAC AAAAGAATTG GAAACCATAG TCCTGAACTC 60  
TCCCTAAGTA GTATAAGCTT TAAATAGCAC TCAATCCATA TTAAGTCTTC TTAGTGTAGC 120  
ATGGTTGCTC TCATGCGTCT TTCTTATGTT TTAATGGTG TAAATTTAG TCGTTTGTCA 180  
TTCAGAAGTG GCTTTGCAA TACAAAATAT CTCGAG 216

(2) INFORMATION FOR SEQ ID NO:144:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 301 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:144:

TAATCTTTAC TGGTGAAAAG GATGGAAAAA TAAATCAACA AATGCAACCA GTTGTGAGA 60  
AAAAAAAAAA AAAAAAANC CGAAAAAAA AAAAAAACA CCTGAATGCG GAAGAGCTCG 120  
GCTCCCGTTT AGCATTGTGT ACTTAAGGAA ATAAAAAACC AACAAAGGAT CTCACATTTT 180  
CTTAAAAAGT GAAGATTGCT GTATACTATT TATTCAACTT ATAATTTATG TTAATCCTTG 240  
ATCTTTGTCT TTTGTCATGA CAAAGCATTT ATTTAATAAA GTTATGCATT CAGTTCTCGA 300  
G 301

(2) INFORMATION FOR SEQ ID NO:145:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 177 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:145:

GAATTCGGCC AAAGAGGCCT AGTCTCTGTT AATCCTACTC TGCTTAGCC AGAATAGCCT 60  
AGTATTTTAT TTCTATTTTA TATATTGAGA TTTCTTCTAA CATTTCCTTT GATAAAAATC 120  
TTCTGCTTTT TGAAAAGTGG TATGTATCAT ATTTTATGT TTCTGGTGTG TCTCGAG 177

(2) INFORMATION FOR SEQ ID NO:146:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 310 base pairs

(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:146:

GAATTCGGCC	AAAGAGNCGT	AGGGAAAGAT	TTCAGCTATT	AATCAACTGG	AGGAAATTCA	60
AAGCCAGCTG	GCTTCTCGGG	AAATGGATGT	CACAAAGGTG	TGTGGAGAAA	TGCGCTATCA	120
GCTGAATAAA	ACCAACATGG	AGAAGGATGA	GGCAGAAAAG	GAGCACAGAG	AGTTCAGAGC	180
AAAAACTAAC	AGGGATNTTG	AAATTAAAGA	TCAGGAAATA	GAGAAATTGA	GAATAGAACT	240
GGATGAAAGC	AAACAACACT	TGGAACAGGA	GCAGCAGAAG	GCANCCCTGG	CCAGAGAGGA	300
GATTCTCGAG						310

(2) INFORMATION FOR SEQ ID NO:147:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 353 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:147:

GGTGGCCTTG	GGTCAAGATT	CGCACCATTG	TGGGCACAAA	CCCAGGAGAA	CACTTTCCTG	60
TAAACGTGTT	TTTCATGCTG	AGCCAAGGTT	TTGACTTGGG	TTTGGATTTT	TATTTATTTA	120
TTTATTTATTA	TTATTACCAG	GTTGCATCTA	AAGGATGTTT	TGGAGGAGCA	CAGAGTTTGT	180
CTGGTGAGGG	TAGGCTCTGG	GCAGATTTTT	CTGTGAGTCT	CCCCTGCCTG	CGGCATCAGG	240
ATCATCCCTG	GTGCCCTGTG	GTGGCACCAG	GTGGCTGCCC	ACCCACAGGC	GTGGCCTTCA	300
CAGTGGGGGC	CATCTCAGCC	TGGGGTAGCG	ATCTGCCTCC	GACCTGCCTC	GAG	353

(2) INFORMATION FOR SEQ ID NO:148:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 283 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:148:

GGCCTGCATC	GCAACAGCCA	GGAGGGCCAG	GCCACCCCAG	GCAGGAGGCA	GTGGGCTGGC	60
AGCCACCCCTG	GGCACAGAAG	AGCAGACGCA	GACAGTGCTG	GGCAACGAGG	GGCTTCTTTC	120
ATGGGCCCCGC	CTGCCCTGTC	CCTCCCCCCA	GGTCCCCACC	TTCTAGGGTT	AAAGTGCAGC	180
TGGGAGGGAG	GAGGCAGGCA	GAATTGGGGA	GCTAGAGAGA	GCCCAAGTGA	ACCCTGACTG	240
TCCACGCAAG	TCCCATGTCC	TCCTCGTCTC	GGAGTTCCTC	GAG		283

(2) INFORMATION FOR SEQ ID NO:149:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 321 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear



(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:149:

```

GAATTCGGCC TTCATGGCCT AGACCTGCCT CGAGTTCCTT TTGTTATTTT CCTGCATCTT      60
ACAACGTTAA GGCCTTGGTC CCTGCTAATA ATAAATAAT AATCAACTTT ATAAAGAGCT      120
TACAATATGC CAGATACTGT ACTAAGTGCT TTATATTTTT TTTTGGGTG GGGGGTGGCT      180
GTGGGGCAGT GTCTCGCTCT GTCACCCAGG CTGGAGGGCA GTGGCACAGT CATGGCTCAC      240
TGCGGCCTTG ACCTCCTGGG CTCAGGCCTC CCGCCTCAGC CTCCCAGGTG GCTGGGGCTA      300
CGGGCGTGCA ACATTCTCGA G                                     321

```

(2) INFORMATION FOR SEQ ID NO:150:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 341 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:150:

```

GAATTCGGCC TTCATGGCCT ACGTAATTCT GGAAAAGTGA ATACTTGTGA AGAGTCGTCT      60
TGAATGATT GTAAAAAATC CTGTTCTTAT ATTCAACGAG TTTCGAATCT TTGTCAGAGG      120
AGTATTACCA TTAGATTGAA AAAAAGGAAA ATAAATAATA AACACTTTTA AAAAACTCC      180
CCATTCTCTT ATTCTCACTT TTAGGAAAAG AGACTGACTA ATATCTTCTG CCACAAATAC      240
CGATGTTCTT AAAAATATTT ATGGGACTGC TTTTGGCAAC CAGCCCTATT TTGTTTTCAT      300
ATCCCTTTT GCTCCCATCT TTCCAACTC ATAACTCGA G                                     341

```

(2) INFORMATION FOR SEQ ID NO:151:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 405 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:151:

```

GAATTCGGCC TTCATGGCCT ACTCGCCTCT ACTAAAAATA CAAAATTAG CCAGGCACGC      60
GCCAGGTGGT GCGCACCTGT AATCCCAGCT ACTAGGGAGA CTGAGGCGGG AGAATTGCTT      120
GAACCTGAGA GGTAGAGGTT GCACATAGCG CCACTGCGCT CCAGCCTGGG CAACAAGAGT      180
GAGACTCTGT CTCAAAAAAA TATATAAATA AATAAATGAA AAAAAATAAT TGTATAACAT      240
CTATACTATA GCCTCGTAAG CATTAGCTAC TTAATATTTT TGGTATATTT AATAATTTTA      300
ATACAGCATT TTTGATTACT AGTGAACATG AATATTTTCC CATATTTGTT AATTATACTT      360
TCCTCTTACA GAAATTCTGT TTGTGTCCTT CACCCTTCAC TCGAG                                     405

```

(2) INFORMATION FOR SEQ ID NO:152:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 233 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:152:

GAATTCGGCC TTCAGGGCTC CTTCTTCCTA GGCTAGTATT TATCCCACTA CATCTGACTC	60
ATTCTCTACT ATCGCTGTTG ATTCCTCTT GGGTACTAAA TCTGTTGAAC ATGTTGCCAG	120
GCTTACTGCT GGTATTATGG GATAGCATTT GCCTGATGGC AGCTTCTAAA GGAGACTCCG	180
ATGGCACTAA GCAGTTTCCA AAAGTTTATC TTGCAAGTTC AACCCAATTC GAG	233

## (2) INFORMATION FOR SEQ ID NO:153:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 144 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:153:

GAATTCTAGA CTGCCTCGA GATGTTTTTT TCGTTATTG AAATCTTTC TCTTTTATT	60
TTCAGCTCCC AGATCCTCTC CCTCTCTTA GCTTCACTG TGTGATAT CAAGAATATG	120
AAATGTGAAT TCCACGGACT CGAG	144

## (2) INFORMATION FOR SEQ ID NO:154:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 333 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:154:

GAATTCGGCC TTCATGGCCT AGGCAGGAAG GAGGCTGGAA TAAATAAAAA TAAAAATAGA	60
CAAGTAAGAC AGCATAAATA ATACATTTT AAACATGTCA ACATTGATAA TACAATGAAG	120
ATTTACCATA AAAAGTATCA TATCTAACCA AGATATGCAA AAGATGCATT CAGTAAGCTG	180
TAACGTTGAG AAATGTAAC GTGAAATCAG CTCACCACTT CAAGTCACTA GGTGCCCAC	240
TTGACCGTC TTGGTTTCAG CGAGCATAGC GAGTGGCTGT AAGAAATTGT CCATGCCACC	300
AATTCCACTG CTAATTGCCC AGGTGGTCTC GAG	333

## (2) INFORMATION FOR SEQ ID NO:155:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 275 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:155:

GAATTCGGCC TTCATGGCCT AGGAAGTGA GGAAGCTGG GTCGCTGCTG GAAGGGAGGG	60
AGGCTGACTC TCTACCCCTC ACCTCTGCAA GGAAGTGA GGTGAGGGT TGCAGCTGTC	120
ACTGGCTACA GCGGCGATCT TTCTGTAAAA AGCTTTTCAG GCATGAAACC CATTCTGTA	180
TGGACTGGGC TGTGTTGACG GTGGTGCTT GGCCTTGTGT GCCAGGCCTC TCTGGGTCCC	240

CTCCCTGGCC TTTGCCTTCC TCTCACCTTC TCGAG

275

## (2) INFORMATION FOR SEQ ID NO:156:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 244 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:156:

```

GAATTCGGCC TTCATGGCCT AGAGTCATAG GTCAGACCAC TTCTAGGAG CTGTTCAGTG      60
ATAAAATTAA TAACAGTGAC TTTTGAGTCA AAATAGATTT TTAAAGTACT TGATTTTCTC      120
TTTGATTGGG AAACATCTTT GTTAGCTTA ATTGAAATGA TCTAAAATAT TTGAAGGATT      180
TTATACTTTA CACAGAGGCA TGTATTGGA TAATTAGCTT TTATTAAACC CAGGCTTCCT      240
CGAG                                         244

```

## (2) INFORMATION FOR SEQ ID NO:157:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 249 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:157:

```

GCGATTGAAT TCTAGACCTG CCTGAACCCC ACCCTTCACG TCCTACTTGG GCTGCCAAAG      60
TCATCTTCCC AAAACATGAC TTTTCCTCAG TCACTTTCTT TATTAGATTT TATCATATTC      120
CACATCCCTT CCCTGGCCCT CAAGGGTGCC TGTAACCTAG AACCATCTTA CCTTTCCACC      180
CTTGTTTCCA AACCTCCGC TTTACTTAGA CATGCCTTCC CATTTCCCTC CCGACCCACC      240
CCCCTCGAG                                         249

```

## (2) INFORMATION FOR SEQ ID NO:158:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 274 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:158:

```

GAATTCGGCC TTCATGGCCT AGAAAAAAC AAGTAGTTTG GCAAGGAGAG CAGAAAAATA      60
AAATTCCACT GTGTAGGCAT TTGGAGATTT AGCAAGAGCA ACCTAGAGTC TGCCCCCAGA      120
GACACTGCAC GTTGTTTCTG ACACAGAGGA TGCCTAATT CTATTTCTCG TGCCACCTGA      180
AAAAATCATA ATTTGAGAAG AGAACTGTT AGGCCATTTC TAGTGAATA TTTTCCAAA      240
CCCTCACGGA ACCCTGAACA GGGCGTGTCT CGAG                                         274

```

## (2) INFORMATION FOR SEQ ID NO:159:

- (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 298 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:159:

```
GAATTCGGCC TTCATGGCCT AAGCTTGCTC ACTCTTCTGT GTGTTTGAAA TAATGGTAAA      60
ATACAATAAT ATTGTCAAGC ACAGTGGATC GGAGATTTT CTTCTCAGGA CTATTCTGCT      120
TATAGGTCTA CTTCTATAG CTATTGTCA TTGTCCTCCT GGTCTTCTC TTTTCTTCTC      180
TCCTGTGCTA GATGCTCTCT CTTCTATCC CTCCTCTCT TCCCACCCC ACCTCCCACT      240
TCTCTGTTA TATCCTGATT TTGGTGAAC ACATCCTCCA GGCTCCCTGG CACTCGAG      298
```

(2) INFORMATION FOR SEQ ID NO:160:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 239 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:160:

```
ATGGCCTAAG GTGCCNAGC TTGCCAATTA ATTCCCAGTA GAAATTTTAA AATGTTAAAG      60
ACAGTAATTA AAAAAAAAAA AAAACCACAC TGTTTTGACA TTTTACCTCG TGCTTTGTGT      120
GTGACTAGAT TATGCACTAG AATTTCATTC AGTATTCTTC CAAATAAGTT ATTCCCAGG      180
TGTTGCTGG TATCTAACCA ANTANTCAAT AAAGTATTCT TGCTAAGTNG GCCATGAAG      239
```

(2) INFORMATION FOR SEQ ID NO:161:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 353 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:161:

```
GAATTCGGCC TTCATGGCCT AATATCATGA TCACTGAAAT TACATCTAGT GAAACACACA      60
CGTGCTTATC TGCACGTGTG TGTAAGTTAG AAAGAAAAAA CAAAGGCCTA ACAGTGATTG      120
TCTTAGGTTG ATAGGATAGT GGGTGGGATT TGCAGAATTT TTGTATCTGC AGAATTTTGG      180
CAAAGTGCCC ATTAGTTTGG TAAAGAAAAA AACCTAAATG TATAACTTCT AAAGAGATAA      240
TTTTTCTTT CATGTTTTTG CTACCTATAT CTAGGAAAAT AACTAGAAAT TGTAATTATT      300
TTGAAGCTCT GGAATTATTA TGTCAAAAA TTACAGAACC AAAAAGTCTC GAG      353
```

(2) INFORMATION FOR SEQ ID NO:162:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 469 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:162:

GAATTCGGCC	TTCATGGCCT	ACTTGCTGTG	GCTGACTCGG	TTATTGACTT	TACTTCTTTT	60
CTTTTCAGGT	TTTTATGGGA	CTGTTTCTAG	CCCTGATTCA	GGTGTGTATG	AAATGAAGAT	120
TGGCTCCATC	ATCTTCCAGG	TGGCTTCTGG	AGATATCACG	AAAGAAGAGG	CAGATGTGAT	180
TGTAAATTCA	ACATCAAAC	CATTCAATCT	CAAAGCAGGG	GTCTCCAAAG	CAATTTTAGA	240
ATGTGCTGGA	CAAAATGTAG	AAAGGGAATG	TTCTCAGCAA	GCTCAGCAGC	GCAAAAATGA	300
TTATATAATC	ACCGGAGGTG	GATTTTGTAG	GTGCAAGAAT	ATCATTTCATG	TAATTGGTGG	360
AAATGATGTC	AAGAGTTCAG	TTTCCTCTGT	TTTGACAGGAG	TGTGAAAAAA	AAAATTACTC	420
ATCCATTTGC	CTCCAGCCA	TTGGGACAGG	AAATGCCAAA	CAACTCGAG		469

(2) INFORMATION FOR SEQ ID NO:163:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 242 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:163:

GATTTATCA	TTCTTGATTA	AATGCACTGA	AAAGTAAAGG	GTCTGTTTGT	GTCATGTTC	60
TGAAATGCG	GTTAGAGAGG	TGCTATTCAA	GTGATTCTGA	AGGCACCCCA	AGGTATATCT	120
GTAATTTAAA	GATTACTGCA	AATATCTTTA	CTTTACTGTG	GGTTTTTAGT	ACATCTGTTA	180
ATTTAGTGT	TCTTGTGTG	TTTTGTAGAC	TAGTGTTCTT	CCATCCTTCA	ACTGAGCTCG	240
AG						242

(2) INFORMATION FOR SEQ ID NO:164:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 288 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:164:

GAATTCGGCC	TTCATGGCCT	AGCATTTTTT	TTCTTTAAAT	TATTGTATCC	ACTAGTTCTT	60
GCCAGTATAA	AGGAATACAA	TTGACTTTTG	TGTGTTTCAT	ACGCTACAAC	CTTTCTAAAT	120
TCACTTATCA	GGTCCAGAAC	TCTTCTACTA	ACAATGCACT	TTTATAAAGC	CCTAACACCT	180
CTCCTGATCT	CTGTCTCACC	CTCCACCTA	TCTCACTGTG	GGATGGGAAG	GAAGTCAATG	240
GAAAACACAG	GAGCGCATT	TAATAATAGC	CCACATGGTA	TACTCGAG		288

(2) INFORMATION FOR SEQ ID NO:165:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 199 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:165:

GAATTCGGCC TTCATGGCCT AGCTCGATCC AAGAAGAAAA ATTAAATGA CAGCTTTTCC	60
CATTGATATA ATCATCTTAC TTTGCTCTCT ACAAGAAATA TGCATTAGGA ACCTTCATTA	120
TAGGTCCACA GAAATAGCAG AACACAAAAG CGCCCCCTA CCCCCCGCC CCGGTAACCA	180
GAAATACACA GAGGCAGAG	199

(2) INFORMATION FOR SEQ ID NO:166:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 310 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:166:

GAATTCGGCC TCATGGCCTA GAATTAACCA ATTAAGAATT AATAAATTAC TTATAAAATT	60
AAAAATCAGG AATACCAGGC TTAATGCATT CATTATTCT ATTTAGCAAA CTTTTTTTTT	120
TTTTTTGAAT GCCCACAATG TCCTAGGTTT TGGAAATACA AAATTACTTG GTACCAAGTAA	180
CTCGACTGTC ACCTTTCCAG CCATGGACTT GGTTCAGACA AACCCCCAGT CCACGGTTGT	240
CGTCCACTTG CAGTGCCCGC CGACTGTGGA TATATGCTGG GGATCCCAAC ACAACGCAGC	300
TACTCTCGAG	310

(2) INFORMATION FOR SEQ ID NO:167:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 187 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:167:

GAATTCGGCC TTCATGGCCT AGTAAATATT TTCTTCTACT TTGTGTTTTG CCTTTTGTG	60
TTCTCAGCAT TATTTTTTGA AGACAAAAAG ATTGATTTTG AAGAAGTCTA ATTTATCAGG	120
TTTTTCTAG TAGTTTGTAG CGGATTTNTG CATGCTGCTT TAAAAAAAT CTTTGCTAAC	180
CCTCGAG	187

(2) INFORMATION FOR SEQ ID NO:168:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 275 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:168:

GAATTCTAGA CTGCGCTCGA GCCTTGCCCA GAATCAGCAA GTAACTGCA CTAATTTGTC	60
TTATATTGA CTTTCTAACA CTGATTTTTC TGATTTTCC CTGTTGACC CTCCAATTA	120
TAAAAATGTG TATAATTGTT CTGCTGCTTC TGCTTTTGCC TGCTTTGGCT GCTGCATATA	180

CAGGTGAAGA TCTGGAAAGA AATGATGGAT CTACAGAAAA ACCCTACTTC GTAACCCCTA 240  
 ACCTGCATGG AATTCTGATC AAGAAGCAAC TCGAG 275

## (2) INFORMATION FOR SEQ ID NO:169:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 287 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:169:

GAATTCGGCC TTCATGGCCT AGTTTCACAT TGTCTGTACT GTGTTGTGCA GTACCAGAAG 60  
 TTGCTGGTAG CTACTTGGTC TTCTGGGACC TGCCATTGCA GACGTGGTGA TTGTAATCTT 120  
 AATCTTGTG AACACAGGATG GATTTATGAC TGGGATGGCC GGAAGCCACA CCAGACACCC 180  
 AGTCACCTGG TCATGGGAGA GGTACTTTGT TGCTTTTCA TAGTACTTAA CACTGTGAGC 240  
 TGCTTCTGA AGTGGCACTC TTAAGGCCAG GTGCCCCAC CCTCGAG 287

## (2) INFORMATION FOR SEQ ID NO:170:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 314 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:170:

GAATTCGGCC TTCATGGCCT AAGACAGACA TTTTGGCAG AGCATAGATG AAAATGGCAA 60  
 GTTCCTGGC TTTCCTCTG CTCAACTTTC ATGTCTCCCT CCTCTTGGTC CAGCTGCTCA 120  
 CTCCTTGCTC AGCTCAGTTT TCTGTGCTTG GACCTCTGG GCCATCCTG GCCATGGTGG 180  
 GTGAAGACGC TGATCTGCC TGTACCTGT TCCCGACCAT GAGTGCAGAG ACCATGGAGC 240  
 TGAAGTGGGT AAGTTCCAGC CTAAGGCAGG TGGTGAATGT GTATGCAGAT GGAAAGGAAG 300  
 TGGAAGACCT CGAG 314

## (2) INFORMATION FOR SEQ ID NO:171:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 195 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:171:

GAATTCGCCT TCATGGCCTA CACCAAGTTG AATCCCTATG CAGGAGGAGA CGGCCTTCAG 60  
 AACAACTGT CCCCCAAGAC AAAGGGCACT CCGTGCACC TGGGCACCAT CGTGGGCATC 120  
 GTGCTGGCAG TCCTCTCGT GCGGCCATC ATCCTGGCTG GAATTTACAT CAATGGCCAC 180  
 CCCACATCCC TCGAG 195

## (2) INFORMATION FOR SEQ ID NO:172:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 238 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:172:

```
GAATTCGGCC TTCATGGCCT AACTCCTGG TCATTTTGCA TTTTATCCAG CTTTTTTTCA      60
TCAACCATGT TATCCTGACA GACACATTTA TTGGATATTT AGTTGGAAAT ACCTTATGGT      120
TGGTTGCAGT TGGCTATTAT ATCTATGTAA CTTTCCTGGG ATACAGTGCA TTGCCATTTT      180
TGAAAAATAC AGTAATTCTT CTGTATCCAT TTGCACCTCT GATTCTGCTC AACTCGAG      238
```

(2) INFORMATION FOR SEQ ID NO:173:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 234 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:173:

```
GAATTCGGCC TTCATGGCCT AGGCTAACGT AATTGAGAAA ACCAAATGAA ATATATCTTG      60
ACCAATAATT TAAAACCATA TCAGAGATTG AGTTTGGTTC TGTCTTCTGC TTTACTGATT      120
TTAGGATCAG CCTCATACAA AAGGGTAATG GTGGCAGCAG CTCCAGAACT CATATCATAT      180
CCTCCCATGT TAAAGTCAAA TGAGAAAAGT CTGTCTTCGC CCCAGGATCT CGAG      234
```

(2) INFORMATION FOR SEQ ID NO:174:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 251 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:174:

```
GAATTCGGCC TTCATGGCCT ACTCAGTTCC ATTGTTAAGC AAGGAAAAAC AAACAATACA      60
TTGAATTTGA CAACCCACTG AAGTTGCAGA TAATGAGGAC TTACCATGTG ATACCATTAT      120
TCATCTGGAC CTATATGTTT CACACAGTTG ACACCATCCT ATTACAAGAA AAACCTAACA      180
GTATTTTATC AAGCAAAAAG ATAGTGGGTC TGACAAAAGA TGACGGTAAA ATGCTACGTC      240
ACACCCTCGA G                                     251
```

(2) INFORMATION FOR SEQ ID NO:175:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 239 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA



## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:175:

```

GAATTCGGCC TTCATGGCCT AAACCACTGC GCACCATATT TCTTAAGGAT GTTCTGAAGA      60
CCCATGAATG TCTGGTCAAG TCTGCTGATC TCTTAATGAG GGACAACCTG TTTGAAATAA      120
TAACAAGCTC CAGGACATTC TACGTACAGG CAGACAGTCC AGAAGACATG CACAGCTGGA      180
TTAAGGAGAT TGGCGCAGCT GTCCAGGCC CTAAGTGCCA CTAGGCCATG AAGGCCGAA      239

```

## (2) INFORMATION FOR SEQ ID NO:176:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 254 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:176:

```

GAAAACCCCA GATATTCCTT ATTATGGAAG AAGAAGCAGG AAATATGTTT TTGAATAATG      60
TGGGTCAGAG AATTGTGCAT TTATTATTGC TAGGATGCAT ATACACATTG AACTCAGTCA      120
ACTTACTCTC TCTAAATTAT CTCACCGGTG GAGACATTGC CTCAGGAGTC GAGCCCTGTG      180
GTGTGCCTCC TGCTGTCACC ACATTTGACC ACCTAACTGA CCCCCTGTG GTCACCTTTG      240
CCACCAATCT CGAG                                     254

```

## (2) INFORMATION FOR SEQ ID NO:177:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 175 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:177:

```

GAATTCGGCC TTGCCAGTAT TCATGCTGTT GCTTCAGTCA AGAATGAATT CCTCAGCGCT      60
ACCTCTCTTG ACCTTCACAT CTTACTTAGT GCAAATGCTG TCTCCTCCTG AGACTTGCCT      120
GACTTCGGAT ACTCTCCCTG TGACATCTTA TCTAAAATGT CAAGTGAGAC TCGAG          175

```

## (2) INFORMATION FOR SEQ ID NO:178:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 239 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:178:

```

GAATTCGGCC TTCATGGCCT AAGTGGCTGT GTGGTATTTT CTAAGTATTT TTTAAATTTT      60
TCTCTCATTG ATACCCCTATA AAAATGCAAC TGTAAAGAA TTTGTCTTTC TTTCTCATT      120
TATTCTTTCC AGAGTATATA ACTAATTTAT TCAGCATTCA TTCATTGAGC AGATATTTGT      180
TGAGCACTAA CTATGTTTCT GCACTGGGCA GGGATATCGG GATACCAAGA AAGCTCGAG      239

```

## (2) INFORMATION FOR SEQ ID NO:179:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 236 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:179:

GAATTCGGCC TTCATGGCCT AGAAAATAAT TTAGAGAAAG AATAGAAAGT CATGGAAAAT	60
CTCATAGGTA GGAGACAGAA GAGAGACAT TGTAATAAG TTAAAAAAG ATAAGAAAAT	120
CAGGATAAAG TAGTATGGAC TCTGAGGTGG GAGAGAATTT TAAGATTAGC AGGAAAGTAG	180
TGTAGTTGGT ACTTTTGTAGT TATTAACAAA GCACTCACTT CTTACAGAGT CTCGAG	236

## (2) INFORMATION FOR SEQ ID NO:180:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 410 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:180:

GAATTCGGCC TTCATGGCCT ACGAAGATTA TAATGTATTT TTATTCTGTT TTCAGCTTCA	60
TGTTTCCTGT TGCAGGTGGG ATAAGACCCC CTCAAGGCCT GATGCCGATG CAGCAACAAG	120
GATTCCTAT GGTCTCTGTC ATGCAGCCTA ATATGCAAGG CATTATGGGA ATGAATTACA	180
GCTCTCAGAT GTCCCAAGGA CCTATTGCTA TGCAGGCAGG AATACCAATG GGACCAATGC	240
CAGCAGCGGG AATGCCTTAC CTAGGACAAG CACCCTTCCT GGGCATGCGT CCTCCAGGCC	300
CACAGTACAC TCCAGACATG CAGAAGCAGT TTGCCGAAGA GCAGCAGAAA CGATTTGAAC	360
AGCAGCAAAA ACTCTTAGAA GAAGAAAGAA AAAGACGCCA GTATCTCGAG	410

## (2) INFORMATION FOR SEQ ID NO:181:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 298 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:181:

GAATTCGGCC TTCATGGCCT ACACATTTGC ATTGTCTGCC CATGGACTGG TTGGAGCAGA	60
AACCTCCATA CTCAGTCTC TTGGTATTTG TCTGCCCCAA CTGCTGCTTT TTGTTGGGAT	120
GTTTGTGTGT GCTGGGGTCT CGGCAGCATC GGCTGCTTCC CGGTGCGCAC TGACATGCAC	180
TTGTTCTCCA CGATGGCTTT CTCTACCTTC TGAGATGCTC CATTATCAGT CCTGCCTTTG	240
TTCCGGAGAG TTGAGATGGT ATCACTTCTC ATCCATCCTT AGAAATACCC CTCTCGAG	298

## (2) INFORMATION FOR SEQ ID NO:182:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 272 base pairs

(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:182:

GAATTCGGCC TTCATGGCCT AGGGGGCTGG TAGTGAAATA TTTGGTACTG AAAGTGTGAA	60
GACCTCTGCT GGGGACTGAA CAGAGGGAGT GTCTTCTGCT GGTGGTGTGA AATCTATCTC	120
ATCATCAAAA TTATCTTCAA ATTCCTTAAA GTCTATTTCT GGGTCCTTAC AGCAGGATAC	180
ACAGTTTGCA ATTAACACTA TTAATATTAT TAAACTGCAC ACACACAGGA TCACAAAAGA	240
TGAGGAAACT TCTGCAGCAG GTGGCGCTCG AG	272

(2) INFORMATION FOR SEQ ID NO:183:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 250 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:183:

GAATTCGGCC TTCATGGCCT ACTACTTATC ATCCCTGCTC ACACACCCTT GTCCAAGGCT	60
TTATGCATCG GATTTATTTT TCCAAATCAA GAGGACAGTG ATAGATGCAT TTCCCCCAGG	120
CTGTCTCAGA AAGGTCGCTA AATGTATACT GTTGTCAGAA TTGCTGAGAT CTCCCCCCAC	180
TTTGGTTTTT TGCAGCAGTA AAAACTCTTT CCACTGTGAC TTATTTTCTC TCTCAGGCAG	240
CAGACTCGAG	250

(2) INFORMATION FOR SEQ ID NO:184:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 399 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:184:

GAATTCGGCC TTCATGGCCT AGATCTTCTC CCCATTGAGC AAAACTTTCC CATTCCGGTT	60
AATGGTTTTG ACAAGCAGGG CACCACGGGG CATAAAATTG TATCATCCAG CCTCCTTCCA	120
GCAGCTCTCT CCAGTTCTTG TCTGTGATGA TGCGTACGTT GCTCTGCCGC CTGTGGGTCC	180
AGGGAGCACC CCCAAGCAAC AGTACCAGGA CTGCCAGCGG AACTGCAAGA CTCCTGGAGG	240
GTGCCATGTC TGCCACTTGC CCACCTCACA GCAAGCGTGG CGGCCCAACA CTAGGTTTTT	300
TAAAAACTGT GACTATCAGT GTTTTAAAAA TTGCCCCGTA ACTCTAGACT TCAAAAAGTG	360
GATAAGTAAT GATAAACCAA TAATAAACCC TGCCTCGAG	399

(2) INFORMATION FOR SEQ ID NO:185:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 185 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:185:

```
GAATTCGGCC AAAGAGGCCT AAAAATTAAT ATTACCTTAT GACTGCCTTT ATCATGACTC      60
TCTTAGTGGG GATTCTGTG CTCCACATGC CCTGGGGGAT GTGCAGCCCC CGTGCACTCC      120
CCGCCTTGGC CGGCCCTTC CCCCATGCCC AGGTAGACTC TGAGCTCTTA GCCCAGCAAC      180
TCGAG                                           185
```

(2) INFORMATION FOR SEQ ID NO:186:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 322 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:186:

```
GAATTCGGCC AAAGAGGCCT AGGGAACATA TCTTAAACAC TGAACCTCTT TTCAGCAAAT      60
TGGCTTTCTA GTTCTCAGC TCTCTCTTA CACCTCTAAA TCTCTTCCT GGCAAGATCA      120
TTTATTGCC TTGGTTTATG GTGATACTCT TCATTGTTAT ACTGGTGGGT GATTGTTTTA      180
ATTTCATAGCT GTTTTTTCT ACTTCAGGAA GATGACACTG CTGGCTCTGC TGGCTCTGAT      240
GTTTACCTTG TGGCTAATGC CTGTGTTTGC CTGTGTTTAC ATTTATTCCA CGATTCAATT      300
GTTAACATTT ACTAAGCTCG AG                                           322
```

(2) INFORMATION FOR SEQ ID NO:187:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 314 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:187:

```
GAATTCGGCC AAAGAGGCCT ACTCATAACA GCGTCAGAGA GAAAGAACTG ACTGAAACGT      60
TTGAGATGAA GAAAGTTCTC CTCCTGATCA CAGCCATCTT GGCAGTGGCT GTTGGTTTCC      120
CAGTCTCTCA AGACCAGGAA CGAGAAAAAA GAAGTATCAG TGACAGCGAT GAATTAGCTT      180
CAGGGTTTTT TGTGTTCCCT TACCCATATC CATTTCGCCC ACTTCCACCA ATTCCATTTC      240
CAAGATTTTC ATGGTTTAGA CGTAATTTTC CTATTCCAAT ACCTGAATCT GCCCCTACAA      300
CTCCCCACCT CGAG                                           314
```

(2) INFORMATION FOR SEQ ID NO:188:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 462 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:188:

GAATTCGGCC	AAAGAGGCCT	ATTATGCTGG	TGCTGTCTAC	TAATTTCAAG	AAAAACTACA	60
AGTCTGGCTA	GACTCTGCTA	CCGCCTAGCA	CTGAGGTGTG	GTCCTTTATC	TGTTATTACA	120
TTCTTCGTGA	TAA TGAAATT	CTGAAACACA	TGCTCCAGGC	ACCTTTGTAA	ATGTGAAGGT	180
GAATAAAGTA	TTTGT TTGTT	GTCTGAAAAG	AGATCTTTGA	AATGT TAAAGT	TGCCACAGAC	240
CCAGACCAAG	GAGCCTGCTG	AGAGTTT TAA	AGGCTCTTAT	TGGATGACAG	TAGATTCTTT	300
CCTTGAAATG	TCTATAATGA	ATATTCAAGA	ATGCTCATTG	TGCATGAAAT	TTGCAATTTT	360
AATTATCAGT	GAAAGAAAAG	ATTACACAGT	GCTAAATGAT	TGCCATGGAA	AAGTTATGGC	420
TACCTCTTGG	AGTAGAGAAA	ATCTCAAAGG	CCGCTACTCG	AG		462

## (2) INFORMATION FOR SEQ ID NO:189:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 319 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:189:

GAATTCGGCC	AAAGAGGCCT	AGTGGGCAAC	TTGGAGAAGA	GTGAAAAACA	CTAAAGAATC	60
ATCTCTTTTC	CGAGTCACAA	AGTCCCATGA	ACTTTGTGAC	TCAGAGACAC	TTTTCGTGAA	120
AATTACCTTT	CGGCGGGACA	CGTCTCAGG	GCAGCTTTT	CAAGGCTTCG	CTTGACATGA	180
TTTCCTTCCC	TTCATCAGTC	ACTTTGGATC	CAGCTGAATA	TCTCTCTCGG	GTGAGAGCGG	240
ATGTGGACTG	GCCTCCACA	GAAGAAGAGT	AGGTGGCTTT	GGTGGGGGTT	GGGGTGC GGG	300
CTGGCTTCCT	GGTCTCGAG					319

## (2) INFORMATION FOR SEQ ID NO:190:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 361 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:190:

GAATTCGGCC	AAAGAGGCCT	AGTGAAAAGA	AAGAGACTGT	NAAATAATTC	TGCATATCCT	60
CAGTGGATAA	TTCTGTNACC	TATCTGTCAG	CTATTCCATA	TCAATAAAGG	ACACAGCTGG	120
TAATCCAAAA	GGAAAGGATC	TCTTGATGAA	AGTGTTCCTG	CATTCTTATT	AAAGTCAACA	180
TACAAGATAC	ACTCTTAGTG	ATTTTGAAC	CCATAATTAT	ATTGTCTCTG	TAATAATTGG	240
CACCTAACGG	TTACAGAACA	CTTTCAGTGA	TATTTTCCTT	AGTGAATCCT	AACAACAATT	300
CTACCAGTAA	TTTCTAATAT	TTGCCATGAT	TAGACTTTCA	AAATTAGTCC	ACGCACTCGA	360
G						361

## (2) INFORMATION FOR SEQ ID NO:191:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 378 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:191:

```

GAATTCGGCC AAAGAGGCCT AAGAAACATG GCGGCCGCGA CGTTGACTTC GAAATTGTAC      60
TCCCTGCTGT TCCGCAGGAC CTCCACCTTC GCCCTCACCA TCATCGTGCG CGTCATGTTT      120
TTCGAGCGCG CCTTCGATCA AGGCGCGGAC GCTATCTACG ACCACATCAA CGAGGGGAAG      180
CTGTGGAAAC ACATCAAGCA CAAGTATGAG AACAAGTAGT TCCTTGAGAG CCCCATCCA      240
GGCCAGAAGG ACCAGGTCCA CCCAGCAGCT GTTTGCCCAG AGCTGGAGCC TCAGCTTGAA      300
GATGATGCTC AAGGTACTCT TCATGGACCA CCATTGCTG TTGGCAAGAA ACGGCTTTAC      360
TTACAAAACA GTCTCGAG

```

## (2) INFORMATION FOR SEQ ID NO:192:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 175 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:192:

```

GAATTCGGCC AAAGAGGCCT ACTCTGAATT AATGCAAATT CCCGTTGTAC TGTATTTAAT      60
TATGCACAAA ATGGTGCCCT TGAATCAGAT TTCAGTGAAG AACTTCATTT TTTTACTTTT      120
AAGTCTCCAA GTAGGAAATT CAATTAGCGT TATGAAAGAA AACTTAAAC TCGAG

```

## (2) INFORMATION FOR SEQ ID NO:193:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 700 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:193:

```

GAATTCGGCC AAAGAGGCCT AGGCAGCAAT GTTATCTGTC CTTTATTCTT GCATGTTTTT      60
GGAAATTGCT TTTGCTTTTA CTTTGGTTCG TCATGGCAAT CACGTGCCTT CTCTGGTTCA      120
TTTTCACAG ACCTGCCTAG AGCTGGAACG TTACCTCCAG AGCGAGCCCT GCTATGTTTC      180
AGCCTCAGAA ATCAAATTTG ACAGCCAGGA AGATCTGTGG ACCAAATCA TTCTGGCTCG      240
GGAGAAAAAG GAGGAATCCG AACTGAAGAT ATCTTCCAGT CCTCCAGAGG ACACCTCAT      300
CAGCCCGAGC TTTTGTTACA ACTTAGAGAC CAACAGCCTG AACTCAGATG TCAGCAGCGA      360
ATCCTCTGAC AGCTCCGAGG AACTTTCTCC CACGGCCAAG TTTACCTCCG ACCCCATTGG      420
CGAAGTTTTG GTCAGCTCGG GAAAATTGAG CTCCTCTGTC ACCTCCACGC CTCCATCTTC      480
TCCGGAAC TGAGCAGGGAAC CTTCTCAACT GTGGGGTTGC GTGCCCCGGG AGCTGCCCTC      540
GCCAGGGAAG GTGCGCAGCG GGACTTCGGG GAAGCCAGGT GACAAGGGAA ATGGCGATGC      600
CTCCCCGAC GGCAGGAGGA GGTGACCCG GTGCCACTTT AACGGCTGCA GGAAAGTTTA      660
CACAAAAGC TCCCACTGA AAGCACACCA ACGGCTCGAG

```

## (2) INFORMATION FOR SEQ ID NO:194:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 453 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:194:

GAATTCGGCC	AAAGAGGCCT	AGAAAAATAC	TTGGGCAGAA	AGAAAAATATC	ATCAAATAAC	60
ACCTATTTCT	TTTCAGCTAT	AGAGATGGCT	GGATATCAAA	AGCACCACGG	GAGCTTTGCA	120
ATTTGCTGCC	TCTTTTCAGC	CCTCAGCTTG	ACTCTCAGTT	TTCAAGAGGG	AGAAAAATGAA	180
TGTTTCCCAG	CATTCTCTGT	CCTTTGCTCC	AAAGAAGAGA	GCAGGTGTTG	GCTTCCAAAC	240
CTTCCGTATT	TTCTTATTGC	TGTTAGGGGG	ATCAACTGCA	TGTTTCCTGA	GGGAAAAGGG	300
TGGCTCACTG	ACCTACTTGA	AGGCATTCTC	TCAGTGAAG	CTGGGCAAGA	GAATCCAGGG	360
ATTTCTTTTG	CAGGTTTCTG	CGCAGTGCCC	CTGCCATCAA	GCTGCCTAAA	ATGTGAATAT	420
TGCTTCCCTG	CGTTTCAGAG	GTGGCCGCTC	GAG			453

## (2) INFORMATION FOR SEQ ID NO:195:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 434 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:195:

GAATTCGGCC	AAAGAGGCCT	ACAAAATGTG	AATGGAACAA	ACCTGCACGT	GTACCCTTGG	60
ATGTGTGGAT	GTTCTTTGTT	TTTATTTGTT	AAACCTGATG	TCTTGTCTGT	ATGACACATT	120
TATTGGAAAC	GTTTTTTCCC	TATTCTGTGT	CTTGATTTT	ATTTCTCGT	GTTCTCCAAA	180
GAGCAGATAT	TTTAAATTTT	TATATAAATC	CAGTTTGTC	ACATTTTAA	AGGGTTCATG	240
CTTTTTGTAT	CCTATTTTCA	AAAACTTTGG	CTACTTCAAG	GTCACAAAGA	TTTGGGATTT	300
GTTTTAATCT	ACAAGTTTTA	TAGCTTTGAC	TTTTATATAT	AAGTCTGATT	CATTGGGAGT	360
TAATTTTGT	GTACAGTGTC	AATTAAGGGT	CTAGGTTTCT	TTATTTTCTT	ATGAATATCC	420
AATGGTTCCT	CGAG					434

## (2) INFORMATION FOR SEQ ID NO:196:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 324 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:196:

GAATTCGGCC	AAAGAGGCCT	ACAAACACAG	AACATTTCCA	TCGTTGCAGA	GAGTACTATT	60
AGAGAGCAGT	ATTCCAGAGC	CTGTGATCTT	AATCACTACA	CCTAAAGCCT	CCCAGTTGAC	120
AAAGTTACCA	CCTTTTTTTG	GTGTGTGTGC	ACGTGCGTGT	GTGTGTGTGT	AAGTATATAT	180
AATTTAAATC	ATTCCATTAA	ATTTACCTCT	GAAATTCAAA	AGACTGAAAC	AGATCTTCTT	240
TTTATCAAA	AAGTTGATTG	CAGAGATTAT	ATTGGTGTGT	ACATTTTCAGG	CAACCTGCTC	300
ATGAAATTAT	CCATTGCTCT	CGAG				324

## (2) INFORMATION FOR SEQ ID NO:197:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 278 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:197:

GAATTCGGCC	AAAGAGGCCT	ACTCCTCCGC	CTGCAACCAT	TGTTTCCTAC	CACTGGATTA	60
TTCTGAAGCA	AATTTTAGAC	ATCATATATA	TTTATCTCTG	AAAGAGGACT	CTTAAAAACA	120
TGCACTTATA	CCTCTATTAC	ACTGACAAAA	TTGGTAACAA	TTCTTTTATA	TTATCAAATT	180
TCCTTATTGA	GTTCTGATG	TTCAAATTTT	TGATTCTCCA	GATGCTCCAA	ACTTCCAGAA	240
ACACAGATTC	CCAGATGGAA	TCCTGGGGAA	GGCTCGAG			278

## (2) INFORMATION FOR SEQ ID NO:198:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 448 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:198:

GAATTCGGCC	AAAGAGGCCT	ATTTTCTAAT	AAAAACTATT	TTATGGTAGG	TTTTGTGGAT	60
TATTGAATAC	AATCTGGCAT	TCTGTTTAAT	ATGTATGTTT	TCCTGAATGA	GGGGGTACAT	120
TGTAATTTTA	ATTATTAAAC	TCACAATGTT	TTTGGTTTTA	AAAATAAAAA	TTTTAGGAGC	180
AAGCAGTGTT	CCTGCCTTCT	TTTCTGAAGA	TGATTCTCAA	TCGAATGACT	CAAGTGATTC	240
TGATAGCAGT	AGTAGTCAGA	GTGACGACAT	AGAACAGGAG	ACCTTTATGC	TTGATGAGCC	300
ATTAGAAAGA	ACCACAAATA	GCTCCCATGC	CAATGGTGCT	GCCCAAGCTC	CCC GTTCAAT	360
GCAGTGGGCT	GTCCGCAACA	CCCAGCATCA	GCGAGCAGCC	AGTACAGCCC	CTTCCAGTAC	420
ATCTACACCA	GCAGCACTCC	ACCTCGAG				448

## (2) INFORMATION FOR SEQ ID NO:199:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 187 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:199:

GAATTCGGCC	AAAGAGGCCT	AACTTTTGTA	ATTTGAATTG	GGTCCCGCTT	AGTTCTTGAA	60
TTGTTATGAA	AATCCTATAT	CTGTTTGTAT	ATTTGCAAAC	CCTTTGTATT	ATAATTGTTG	120
ATATTTTCCC	TTTTTAAAAA	ATACCATTGA	AATCAGCATG	ACAAAAATAA	CACTGTGGGC	180
ACTCGAG						187

## (2) INFORMATION FOR SEQ ID NO:200:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 349 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:200:



GAATTCGGCC	AAAGAGGCCT	AGACCAGAAT	AAGCCTTTTA	AGGTAAACCT	CAAAATTATC	60
ATTTTATGGT	AATACTGACC	ATTTTAGTCC	CCTAGGTTTG	ACATGGGAGA	TAGTGACTAC	120
ACTGGTGTCT	GACTTTTTTC	CTAGAGATTT	CTCCCTGAAA	AATACAAGGG	CTGTTGGTGA	180
GAGCAGACTT	GAGGTGATGA	TAGTTGGCCT	CTGGTCTACA	AAGATTTTAT	AACTCCTTGG	240
AAAGCTTCTT	ATAATCATTC	TTAACTTCTT	GGTAGCTAGA	AATTTAGAGT	AGTTGAAATC	300
TTTAGGAATG	AACTTCTGAG	GGCCAAAAAA	TGTGACTGAC	ACACTCGAG		349

## (2) INFORMATION FOR SEQ ID NO:201:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 329 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:201:

GAATTCGGCC	TTCATGGCCT	ACATCACCAA	TTGGGCTGGG	TAAGGGTCCC	CATGAAGGCG	60
CAGCCCGGTA	TAGAGGTGCA	GGGGAGAGCA	GCCTGGGGAG	TCCCTATCTG	GATAGGCTCC	120
AGCCTGGGTC	GGGGCGGTCC	TGGTGCCCGG	TGAAGCGTCA	AAAGAGGGAG	CCTGAGCGGG	180
GCAACGCAGA	AGGGTGGAGA	GGAGGGGGTG	GCGAGGGCGG	GCAGCGAGGC	CTGGAGCCGC	240
CAGGAGAGGG	GCGGGGGGCG	GCCCTTCTCC	AGGAATTTCC	GGGGATCGTG	TTACAGCGTT	300
GGCGGAGCCC	GAGCGGAGTG	GGACTCGAG				329

## (2) INFORMATION FOR SEQ ID NO:202:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 376 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:202:

GAATTCGGCC	TTCATGGCCT	AGAAAGGGGA	GGGAACGTGA	CAGGCAGGTG	TGGGATAGGG	60
ACTTCTCTTC	CGGTCAGAGC	AAGGGTCGTC	CGAAACCAAA	ACAACCCTCT	TCCCTTCATC	120
TCGCCCCGGA	TCCAAAGTCT	TGGGGCTAGG	CTGGGGCGGG	AGTGGCACGG	AGATGTAGGA	180
ACACTGCCTT	TCGTTACTTC	TCCTGCCATG	GCTGACCTTT	TTGTCTCTTG	TTTCATGGTT	240
TTACACGTAT	GAATGGCTTG	AGACTGAGGA	TTTAGGGAAG	AAGCGAAGGC	ATCATCTAGG	300
GCTGTGCTGT	GCCAAGTTGA	GCAGTTGTTT	AAACTGTTAG	AATTTTGTAC	TGGTGTAATA	360
ACCCTCTATG	CTCGAG					376

## (2) INFORMATION FOR SEQ ID NO:203:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 269 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:203:

GAATTCGGCC	TTCAAGGCCT	ACGTGAAACC	CCATCGGCTT	CATTGGCTCC	TTGATTATAA	60
------------	------------	------------	------------	------------	------------	----

```

CCACGCCCGG CTNTCTGCCC TCTTTGATGC TGCTGGGCCA GGTGCCCCAG CCATATCCCA      120
GCCCCGTCTG CAGGGAGCCG GAGGCNGCTG CTGCTGCTAT TGTGTGGATG CCGCGCGTGT      180
CTTCTCTTCT TTCCAGAGAT GGCTAACAGG GGCCCGAGCT ATGGCTTAAG CCGAGAGGTG      240
CAGGAGAAGA TCGAGCAGAA GATCTCGAG                                     269

```

## (2) INFORMATION FOR SEQ ID NO:204:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 197 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:204:

```

GAATTCGGCC TTCATGGCCT AGATGTGTG AACCTTATTC TTGTACATTC ATTCAATCAA      60
GGCAAACCTT TATAATTTT CTTTTGTTC CAATGACCTT GAAATGTTAT AGCATGGTAA      120
TATTCTATGC AACTATAGTT ATACTTTTGT GTTTGACACT GTATTTTTC ACATTGATTT      180
ACTGGTTGAG GCTCGAG                                     197

```

## (2) INFORMATION FOR SEQ ID NO:205:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 396 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:205:

```

GAATTCGGCC TTCATGGCCT AGCAAGACCT TTAAAGTATA TACTCTGAAA GTGTGGCTAA      60
TATGATCATG ATGCTGTAGG AAAAAAGGT TATATGTCCA AGTGTATGTA CTTGTAAATG      120
TGCCTAAAGA AACCTGGAAG GATACACAGG TCTTCCCTGG GGTACAAGAC GGAGAACTGG      180
GATCATCATC TTAACCTCTAC TCTTCCTTTT TACTCTTCTG TCCTCTTAGA GACTTTTGCC      240
TGTATACATG GATTACTGTT ACTTAGCAGG GCGACCGGT TGGCCAAAGC CTTGGTGTGC      300
CCTTGGCACA ATTCTGCCAA GACCCCTACC CTCTCCTCTC CTCANGGCTC CCTTAACCCC      360
TCTCCCCACA TCTGAAAAC CCTGGATACA TTTTCT                                     396

```

## (2) INFORMATION FOR SEQ ID NO:206:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 318 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:206:

```

GAATTCGGCC TTCATGGCCT AGGAAGAGGT TGAGAAGACT CCTGGGCTTC AGCCTCTCCC      60
ACCCAGCCCT GCCCTCACC TGCCTGCCCT CCCCTCCCCC ACTCTATACT AGGGAAGTGA      120
TCTCAGCCTC TGATCAGTTT CACAAAGTTT GTTCCTAAG GAAATCAAAT CCCATTGTCA      180
CCTAACTCTG AAGATCTAAA TAGCCCTTGG ATCAGTACGG GAACCCCAA TCCACAGGG      240
CCAGATGTGG AGTCTGTGTC TGCCCCCGTC TTCTCTCCAT CCTCAAAGCC CCCACTTCTC      300

```

TCCAGGCTGC TTCTCGAG

318

## (2) INFORMATION FOR SEQ ID NO:207:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 296 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:207:

GAATTCTAGA TCCTGCCCTC GGAACAATGG GACTCGGCGC GCGAGGTGCT TGGGCCGCGC	60
TGCTCCTGGG GACGCTGCAG GTGCTAGCGC TGCTGGGGGC CGCCCATGAA AGCGCAGCCA	120
TGGCGGCATC TGCAACATA GAGAATTCTG GGCTTCCACA CAACTCCAGT GCTAACTCAA	180
CAGAGACTCT CCAACATGTG CCTTCTGACC ATACAAATGA AACTTCCAAC AGTACTGTGA	240
AACCACCAAC TTCAGTTGCC TCAGACTCCA GTAATACAAC GGTCAACCACC CTCGAG	296

## (2) INFORMATION FOR SEQ ID NO:208:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 312 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:208:

GAATTCGGCC TTCATGGCCT AGTCTCTTGA AAAGCCGCAT TTCCAGGCGC TTGGCCAGTG	60
GCCTGGGAAG TAGCCTGTGC TTGTATTGAG ACAGTCCCCC AGCAGCAAAC CATGTTCCAG	120
TCATTCCCTT TCCTACTTTG GGGATTGTTG CCTTTTCTGC TTGTTTAAAG TAAAACAAGC	180
ATGTACTTGT TTGTATGTAT GTATGTATGT AGTTGTACGG TGGGCACAAA TAAAAGAGG	240
GCTGTATCCA AATAAATCAT TTCTGGCTGC TCACTGGCAC AGTCCCTTTG CTCCGTCGCC	300
TCCTGGCTCG AG	312

## (2) INFORMATION FOR SEQ ID NO:209:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 315 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:209:

GAATTCGGCC TTCATGGCCT AGGCAGCGTT TCACCGCTGT GGAGGACCAG TATTACTGCG	60
TGGATTGCTA CAAGAACTTT GTGGCCAAGA AGTGTGCTGG ATGCAAGAAC CCCATCACTG	120
GGAAAAGGAC TGTGTCAAGA GTGAGCCACC CAGTCTCTAA AGCTAGGAAG CCCCAGTGT	180
GCCACGGGAA ACGCTTGCCT CTCACCTGT TTCCCAGCGC CAACCTCCGG GGCAGGCATC	240
CGGGTGGAGA GAGGACTTGT CCCTCGTGGG TGGTGGTTCT TTATAGAAAA AATCGAAGCT	300
TAGCAGCTCC TCGAG	315

## (2) INFORMATION FOR SEQ ID NO:210:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 518 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:210:

GAATTCGGCC	AAAGAGGCCT	AGGAAGATGG	CGAAGGTCTC	AGAGCTTTAC	GATGTCACTT	60
GGGAAGAAAT	GAGAGATAAA	ATGAGAAAAT	GGAGAGAAGA	AAACTCAAGA	AATAGTGAGC	120
AAATTGTGGA	AGTTGGAGAA	GAATTAATTA	ATGAATATGC	TTCTAAGCTG	GGAGATGATA	180
TTTGGATCAT	ATATGAACAG	GTGATGATTG	CAGCACTAGA	CTATGGTCTG	GATGACTTGG	240
CATTGTTTTG	TCTTCAAGAG	CTGAGAAGAC	AGTTCCCTGG	CAGTCACAGA	GTCAAGCGAT	300
TAACAGGCAT	GAGATTTGAA	GCCATGGAAA	GATATGATGA	TGCTATACAG	CTATATGATA	360
GGATTTTACA	AGAAGATCCA	ACTAACACTG	CTGCAAGAAA	GCGTAAGATT	GCCATTCGAA	420
AAGCCCAGGG	GAAAAATGTG	GAGGCCATTG	GGGAGCTGAA	TGAGTATCTG	GAACAATTTG	480
TTGGAGACCA	AGAAGCCTGG	CATGAACTTG	CACTCGAG			518

(2) INFORMATION FOR SEQ ID NO:211:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 409 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:211:

GAATTCGGCC	AAAGAGGCCT	AATTGAATTT	CATTTCCTTT	GTAGACTAAT	GTTACAATAA	60
ATAAATGGGA	ATTTTAAATA	CCTGCAIGTT	CTGTTTTTCT	CTTTTTTCTT	TTTTTCAGCCA	120
TAATGAAAGG	AAAGTGACCT	GCAAACATCC	AGTCACAGGA	CAACCATCAC	AGGACAATTG	180
TATTTTGTGA	GTGAATGAAC	AGACTGTTGC	AACCATGACA	TCTGAAGAAA	AGAAGGAAACG	240
GCCATAAAGT	ATGATAAATG	AAGCTTCTAA	CTATAACGTG	ACTTCAGATT	ATGCAGTGCA	300
TCCAATGAGC	CCTGTAGGCA	GAAGTTCACG	AGCTTCAAAA	AAAGTTCATA	ATTTTGGAAA	360
GAGGTCAAAT	TCAATTAAAA	GGAATCCTAA	TGCACCGGGC	GATCTCGAG		409

(2) INFORMATION FOR SEQ ID NO:212:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 411 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:212:

GAATTCGGCC	AAAGAGGCCT	AGTACAGTCC	CAATCAAGAA	GCCTTATTAA	CCTTCTGTGT	60
GAGGGACTAG	ACTCAGTGTT	GGGTTTGAG	GATCCACTGG	TGAGGAGCAT	TCAGTCTAGC	120
AGGAGAAATG	TCAGCATTAT	TTATTACACA	ACAAGATCTG	ATGCATTGAG	ATGTACTTAC	180
AGGTCTAGGA	ACTGTTTCTG	GGAGCACAAA	TGAATGAGAG	AGAGAGGGAG	AGAGGGAGAT	240
TGAGTGAGTT	AGAGAGTTGT	TGGTGCTCCA	CAAGGAGCAG	TAAAGTATTT	TAAAAATAAA	300
AAATAATAAG	GCTGACTCTG	TGTCCTGCCT	AGGGGTTGGC	CATGCTCCAC	AAAAAGCAGT	360
AAAGTGTTTT	TTGTTTTGTT	TCGTTTTTTT	TTTAAAGACA	GACGTCTCGA	G	411

## (2) INFORMATION FOR SEQ ID NO:213:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 339 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:213:

```
GAATTCNGCC AAAGAGGCCT AGTTTATCT TCTTACCTAT TTACTGAATG CNACATTACT      60
GCACACCAAG ACAAAGAGC TCTCCAGGAA AACATTGGAT ATATTGAGAG CATTAAAAGA      120
TACTGCAAAA GCTCTAATAA ATTCACTCTG CTTATTTTCC AAATTTTATA AACTACATAC      180
TTAGGAAACT GTGCTTTCAG TGAGCTAAAC TTCTTTTTTT AAGTAACTAT CATAGTTTAA      240
AGAAAAACAT TTAAGAAGA CAAAAGTAT TTATTAAGCC CATCTAAAAG GCTAATGCAA      300
ATTCCCAAAA AAGGAGCACA TAGAGATAGG CATCTCGAG                               339
```

## (2) INFORMATION FOR SEQ ID NO:214:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 204 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:214:

```
GAATTCGGCC AAAGAGGCCT ATTGAATTCT AGACCTGCCT CGAGACACTA GCCCTTTTTT      60
CTGTTGGTTT AGCACAAATA CTTCCCTCCT CCGGCACCTC CAAACCTACC CCACAGTCAG      120
TGTACTTGTT TTATATATAT TTAATCTTAT TCAATGGAAA CCATGCTTTT GTCGTTTTAT      180
ACTTTGCTAG GTAGACTTCT CGAG                               204
```

## (2) INFORMATION FOR SEQ ID NO:215:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 301 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:215:

```
CTCGAGAGGC GCATCTTCAC TGGCATATGA CAGGCTGTCA CTGCAGCTAA TGTGGGTACA      60
GTTTTTCCAA AGACCTACTG ATGCATCTAC CGTATTGGAA ACCAACCAGA CATTGGCAAT      120
GGTGCTAACA AATAGCATAA TAACAGTAGC GATGTGGACC ACAAAGATAC CAGCCAGCAA      180
TACCAACATG TTGGCTCTTT TTTTGTGGT AACTTGTGAG CAAAGAGACT TCTGAAGGGT      240
CCCAGCGACA GAGGCACTCG AGGCAGGTCT AGAATTCAAT TAGGCCTCTT TGGCCGAATT      300
C                               301
```

## (2) INFORMATION FOR SEQ ID NO:216:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 319 base pairs

(B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:216:

GAATTCGGCC AAAGAGGCCT AAAATATTTG AGTCTAACT TATAAATTTT GCATTCTCCC	60
TAACGAAAAA ATTTCTATTA CTGTGGTGA TTTCTTTAAA TTTTGAATAT AGTTACTGAA	120
ATATTAATTC TTCAATTAA ATTTATATTT ACTCACTGGT TCCTTCCCCT TCTTTAAGGA	180
GACAGAAAAC ATTAACACTT TTTAACCTCT CATTGTTTA AAAATTTATT GACCTCTCCT	240
CTGAGACAGT TTGTATTCCT AGATCTCTT AAACATAAAT ATGCTTATTT TCAAGTTTTT	300
CTCACAGTAT TCACTCGAG	319

(2) INFORMATION FOR SEQ ID NO:217:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 278 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:217:

GAATTCGGCC AANGAGGCCT ATTTAGATTT AACCCAGTTT GTAGACATTT GCATAGATCA	60
AGCAAAACTA GAAGAGTTTG AAGAGAAAGC ATCAGAACTT TACAAGAAAT TTGAAAAAGA	120
GTTTACCGAC CACCAAGAAA CTCAGGCTGA ATTGCAGAAA AAAGAGGCAA AGATTAATGA	180
GCTTCAAGCA GAGCTACAAG CTTTAAAGTC TCAGTTTGGT GCCTTGCCAG CTGATTGTAA	240
TATTCCTTTG CCTCCCTCTA AAGAAGGTGG AACTCGAG	278

(2) INFORMATION FOR SEQ ID NO:218:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 298 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:218:

GAATTCGGCC AAAGAGGCCT ACCTGGCTCA TTTATAACCT CCTCGATCCT ATTACTGATT	60
TGCATTCTTA ACTACAGGTA AGAGAAAACC AGTGCAACCT AGCTTTCAAT AGACAGGAAT	120
TTGCTGGCTC ATATAAATGA GACATCCAAT AAAGAAGAAA AGTTGGAAAA AATGTGTCAA	180
ATGTAGCATC CTCTCTCTCT CTTTCTCTCT CTCTCTGTTT TTTCACCTAG GCTTGTGCCA	240
TAAACCTGCT TCTACATCAG TTAGTGTGGT TATGGGCGTC TTGTTGGCTG AGCTCGAG	298

(2) INFORMATION FOR SEQ ID NO:219:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 251 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:219:

GAATTCGGCC AAAGAGGCCT ACTTAGCAGA ATATATTCTT TAATAGCTCC CATAAAGCAA	60
ACAAACCCAA AATATATTCT CCTGACCCTA CATTCACTTC CAACTATCAC CCTACATCTA	120
CATTCTCCTT TTCATACCAA ACTTTTTCCT AGCAGTTGTC TATATTATG TCTCCACTTC	180
TTTACCTCCT ATTCTTGCTT CAGTATGCTT CAGTTGAGCT TCGTCCCCCT GTAGTCCACC	240
ACCAACTCGA G	251

(2) INFORMATION FOR SEQ ID NO:220:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 385 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:220:

GAATTCGGCC AAAGAGGCCT AGATTGATTC TGTGTTGTGG TATTGGCCCT TACATACAAC	60
TGGAGGAAGT GTGAATTCA TCAATTTGAT AAATTGGACT GTCATGATTC TTTATAATTA	120
CTTCAATGCC ATGTTTGTCT GTCCGGGCTT TGTCCCTCTG GGGTGGAAAC CGATGTGTGA	180
TGAAGATGGA CCATCACTGT CCTTGGATCA ACAACTGTTG TGGTTACCAA AATCATGCTT	240
CGTTCACACT GTTCTCCTT TTAGCACCAC TGGGTTGTAT CCATGCTGCT TTCATTTTGT	300
TGATGACTAT GTACACACAG CTTTATCATC GGCTCTCCTT TGGGTGGAAC ACAGTGAAGA	360
TCGACATGAG TGCAGCACCC TCGAG	385

(2) INFORMATION FOR SEQ ID NO:221:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 400 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:221:

GAATTCGGCC AAAGAGGCNT ACCNGATTA TAGTTTTTGT ATTGTTTTTA CAATTTTTGT	60
GAATTAGGAT CCAAATAAGG TCTGTAAATA TTACATTGGG TTTAGGTAAT CGATACTTTT	120
TTTCTTTTAA TCTATAAGTT TTCCTCTATC TTTTATTGTT GGTTATTCCC ATACAATTGG	180
TTTGTTGAAG AAGCCAGGTC TTTGCCCTAT AATACTTCTC AGAATCTAGA TTGTGTTGAT	240
GAGATCCCAG TGGTTTCATG TAATATGTTT TTTTGTCCCT TGTATTTTCT GTAAATTTTG	300
TTTATTTTAT TTTTATTATT TCTATTATTT GAGATGGAGT CTTGCACTGT CACCCAGGCT	360
AGAGTACAGT GGCATGATCT CAACTCACCG CAACCTCGAG	400

(2) INFORMATION FOR SEQ ID NO:222:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 481 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:222:

GAATTCGGCC	AAAGAGGCCT	AAGAGCCTAT	AAGGTTTACA	TATTTCACTG	GAGAGAGAAA	60
TAGGGACATA	CAATAAATGA	TTTTATAATA	AATTTCCATG	AAAAGTGAAT	CTGAAAACCC	120
CACCGGAAGG	CAGAGTAGTG	CAGCCAAAGG	AGCATGAATT	GTGGAATCAT	ACAGCTCTAG	180
GTTTCAGATCC	TACCTTTTACC	ACTTGATAGC	TAGGCAGACT	TCAACAAGTT	AGTCTAATTT	240
GAGCTTCAGT	TCTCTCATCT	GTGAAAAAGA	GAAAATACAG	CCACTTTATA	ACATTATTTT	300
AGATGCCATA	AGGTAGGTAA	AGTGCCAGAC	ACATAGATTC	AAAAATCTCA	ATAAAATAGG	360
AAGGCTGGAA	TTTCCAAAAT	TTTTTCTTGC	TTTCACAATC	TGGGTTCTAA	ATTTATTATT	420
ACTCTACCCA	TCACTTCCTC	CTTCTCCCTC	CACAACCTCA	CTATAAGCCC	AACATCTCGA	480
G						481

## (2) INFORMATION FOR SEQ ID NO:223:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 401 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:223:

GAATTCGGCC	AAAGAGGCCT	AGTGTCAATG	AGAGGTCTCA	GCATTTCTCT	TAGTATTTGA	60
CTGTATTAGT	TTTACATATT	TCTTCTTTTG	TTTAGAGTAT	AACCGCTTCT	TACATTTCTT	120
TCAGTCGTTT	TCTAAAGAAG	AAATTAATCT	TTTLAGAAAT	CCTGGCAGTT	ACCCCGCAAT	180
TGATGTTTTG	GTGGAAAATT	AGAGCACACC	AGTTTGTCTA	AACTTTAAGA	AACATTTTCA	240
CTTTATTGAT	ATTCTGAGGA	TTTGTAGTAT	TGGGTAAATT	TGGGTCTAAT	AAAGAGTAAA	300
TTGTTGAATA	CTCATTTGTT	TTGAGTCATC	TATATTTTTA	AACCTTTTCT	TTAGTTGTTT	360
TTTCATCCCT	AATACAAATG	CAACTTTCCC	ACTTGCTCGA	G		401

## (2) INFORMATION FOR SEQ ID NO:224:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 465 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:224:

GAATTCGGCC	AAAGAGGCCT	AAACTGATGT	CTTCCATTTG	CTGGATAGGA	CATGCTGACT	60
GATGACCTCA	CAGACTGTTT	TTATGCCCTC	ACTACTCACC	TCACCACCTA	CAGTCATAGG	120
CTGACTAGGA	GTTGGTTGTG	TACATTCCTA	AACCTTTTGT	CCCTCTTTAT	TTGTCTTTCT	180
AAGTGTGTAT	TCAGTACTAT	GTAAATTGAT	AAAACATGAG	TGTGAAAATA	TTTTTTTTTG	240
CTATAAAAAT	GTAAATTGAA	TTCTTTGGGG	AAGAGCTGAT	AAAATATGTC	ACTTAAAGAT	300
CTTGTTAAAT	TAGATGAGGG	AGATATAGAT	GACAGAAACT	CTTTCAACAA	ATATCTAAAA	360
AGATGTGCCA	CTCCAATTAT	TTTGTGAGTG	TCTTCAAGTT	TATGTCCAC	TTTAAAGAAA	420
ACCAAAGTGG	CCATCATAGC	CAATGAATTA	TGCAGGAGTC	TCGAG		465

## (2) INFORMATION FOR SEQ ID NO:225:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 478 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double



(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:225:

GAATTCGGCC	AAAGAGGCCT	ACACATTATA	TTAGATTTC	TAGAACTGT	TGGAAATATC	60
TAGCACATGT	GCTTTATCCC	ACAATAATTA	CATAGAAAAT	TAAAAAGAAT	TAATTCTAAT	120
GTAACCATCT	TTTTACTTGA	CTTTTTTTT	TTTGTCTCTG	CTCACAGGTC	TAATTGTTGT	180
TATTCTCACT	TTATTTTCT	ATAAGGTAGG	AATAATATCC	ACTTCATTAG	CTCATCATGA	240
GGGATAAGTA	GGATTGGAAA	AGATACTTTC	AAAGGGCACC	TAACTGTGAA	GAAGATGCCT	300
TCATTTGCAT	TTCTTTCTTG	GCACATTCT	TGTTATCCAG	TCATTCATTA	GGACTCCATG	360
TTTATTGAAC	ACCTACTCTG	TGCCAGGCAC	TTTTCTCTGT	TCTGGAAATA	TCACCATGTA	420
AAAACAAATA	GCTGAAGAAT	GCCCTGCCCT	CATAGAGCTT	ACAGACATAG	AGCTCGAG	478

(2) INFORMATION FOR SEQ ID NO:226:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 265 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:226:

GAATTCGGCC	AAAGAGGCCT	AGCGTTTCTG	ACTTTATTAC	TGGTAATTTA	TTGCACAGGT	60
TTTTCTGCAT	CAAAAAAGTA	TCTGCTAAAA	TAGAGAAAGT	TGTGTCTGAA	TTACATTTTC	120
CCCCCAACTT	CTAAAAATAT	TTCCCTAAA	AAAGAATCCA	CTCATCTAAT	TTTAAAGAAA	180
ATATACTTCT	TACACAAGAC	AATCCAACT	GATGCAAAAT	ATTATTCCA	AGTTAGTTAT	240
TTTATGCAGT	AGTTTCCCCC	TCGAG				265

(2) INFORMATION FOR SEQ ID NO:227:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 238 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:227:

GAATTCGGCC	AAAGAGAGAA	ATTTTAATCT	TGAAAGACTT	TTCAGGGTAT	CTCATTTTTT	60
AGGTGGGGGT	GGCAGGTGTA	TTTCTTTTTT	AACAAATAAA	AGGCATTTAA	GTAAAACTAA	120
AATGAAAAAA	GTAGGCCTTC	TGACATTGTG	TACTTGGTGG	TTCTGTCCCT	CTGCCTGTAA	180
CAAATCTCAT	TTTTGTTACC	AAGAACTGTA	TGAAAGAAGT	AAATCCACCC	CTCTCGAG	238

(2) INFORMATION FOR SEQ ID NO:228:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 493 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:228:

GAATTCGGCC	AAAGAGGCCT	ATGCCTGTGT	TGGGTTGACA	GTGAGGGTAA	TAATGACTTG	60
TTGGTTGATT	GTAGATATTG	GGCTGTTAAT	TGGTGTGTA	GAATATTTGA	GCACAGGTGG	120
AGTAGAAACA	AATCACAAAG	ACTTTAAGGA	GTTGAGGTAT	AATGAAAGTC	TCACAAACTT	180
CAGCTGTCAT	GGGAAGAATG	GAACCACCAA	TGGAAGGATC	ACTCATGGTT	TCAAGTTACA	240
GAGTGCCTAT	GAGAGTGGCC	TGATGCCTTA	CACGAATTAC	ACATTTGATT	TCAAGGGTAT	300
AATAGACTAC	ATTTTCTATT	CTAAACCTCA	GCTGAACACC	TTAGGCATCC	TGGGCCCTCT	360
GGACCACCAC	TGGCTGGTTG	AGAATAACAT	CAGTGGCTGC	CCGCACCCCC	TCATCCCCTC	420
TGACCACTTC	TCACTTTTGG	CACAACTGGA	GCTCTTACTG	CCTTTCCTGC	CCCAAGTCAA	480
CGGCATTCTC	GAG					493

## (2) INFORMATION FOR SEQ ID NO:229:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 572 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:229:

GAATTCGGCC	AAAGAGGCCT	AAGAAATCAA	AATTAAAGCA	ATCAAATAAT	ACTCACATTT	60
ATATAAGAAA	TACTTCAATT	TACTTTCCAA	TGAGTAAAGT	TTTATATTTA	ATGTTTTAAT	120
ATTTTCATATT	TTAGTTTCTT	GCAATTATTT	ACTTTTTCTA	AAACCTACTT	AAATTAGGTT	180
TAAAAGTCTA	CTATATATAA	TTTGAAATTT	TATTCAGTTT	GCCTACAGGT	GTGTTTTAAC	240
CACTGTGTAC	ATAGTATTTA	ACGGTCTGCT	TTTTTTTTTT	TAATATGGT	TCATGTNTGA	300
ACATCTGTAT	GTTCACTACT	TTCTTGACAA	AGTTCTAAAG	GTTACTGTGT	TGAAGCATAC	360
TGAACGATTA	CTGATAATTT	CTATTTTGAG	GAACAGGTAT	GTCAGTTCTT	TCTCTCTGTT	420
TGATAATTCT	CTCTTTTCCC	CTTAGGAATC	CAAAAATCCT	TGTGGAGTGT	CTTACTCCTG	480
ATTTTTCGAGG	TGATCTCAAA	GCAATAGAAA	AAGTTGCTCT	GTCAGGATTA	GATGTGTATG	540
CACATAATGT	AGAAACAGTC	CCATTGCTCG	AG			572

## (2) INFORMATION FOR SEQ ID NO:230:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 193 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:230:

GAATTCGGCC	TTCATGGCCT	ATCGAGATAC	GCTTTCGCGC	ACCAGGTACG	CCTGGTGTTT	60
CTTTGTGGTT	TTTCGGATTG	TTTTTGGGGA	GTGCGGGGAG	TCACAGTTAG	AAGGCGGCCG	120
GGTGTTGCTG	GAGGAAAGTG	CTGAGGTCCA	GAGCGTAGTC	CGAGGGCTCC	GAAGTCAGAT	180
TAAAGGGCTC	GAG					193

## (2) INFORMATION FOR SEQ ID NO:231:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 608 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:231:

```

GAATTCGGCC TTCATGGCCT ACATAATGAT GCTGCCTCAA AACTCGTGGC ATATTGATTT      60
TGGAAGATGC TGCTGTCATC AGAACCTTTT CTCTGCTGTG GTAACCTGCA TCCTGCTCCT      120
GAATTCCTGC TTTCTCATCA GCAGTTTAA TGGAAACAGAT TTGGAGTTGA GGCTGGTCAA      180
TGGAGACGGT CCCTGCTCTG GGACAGTGGG GGTGAAATTC CAGGGACAGT GGGGGACTGT      240
GTGTGATGAT GGGTGGAAAC CTACTGCCTC AACTGTCGTG TGCAAACAGC TTGGATGTCC      300
ATTTTCTTTT CGCCATGTTT CGTTTGGAC AAGCCGTGAC TAGACATGGA AAAATTGGGC      360
TTGATGATGT TTCCTGTTAT GGAAATGAGT CAGCTCTCTG GGAATGTCAA CACCGGGAAT      420
GGGGAAGCCA TAACTGTTAT CATGGAGAAG ATGTTGGTGT GAACTGTTAT GGTGAAGCCA      480
ATCTGGGTTT GAGGCTAGTG GATGGAAACA ACTCCTGTTT AGGGAGAGTG GAGGTGAAAT      540
TCCAAGAAAG GTGGGGGACT ATATGTGATG ATGGGTGGAA CTTGAATACT GCTGCCGTTA      600
TACTCGAG

```

(2) INFORMATION FOR SEQ ID NO:232:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 518 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:232:

```

GAATTCGGCC TTCATCGCCT ACAGCGCTGC CTTTCCTTAT GAAGAAGACA CAAACTTGGA      60
TTCTCACTTG CATTATCTT CAGCTGCTCC TATTTAATCC TTTTCGTAAC ACTGAAGGGA      120
TCTGCAGGAA TCGTGTGACT AATAATGTAA AAGACGTCAC TAAATTTGGTG GCAAATCTTC      180
CAAAAGACTA CATGATAACC CTCAAATATG TCCCCGGGAT GGATGTTTTG CCAAGTCATT      240
GTTGGATAAG CGAGATGGTA GTACAATTGT CAGACAGCTT GACTGATCTT CTGGACAAGT      300
TTTCAAATAT TTCTGAAGGC TTGAGTAATT ATTCCATCAT AGACAACTT GTGAATATAG      360
TGGATGACCT TGTGGAGTGC GTGAAAGAAA ACTCATCTAA GGATCTAAAA AAATCATCCA      420
AGAGCCCAGA ACCCAGGCTC TTTACTCCTG AAGAATTTCT TAGAATTTTT AATAGATCCA      480
TTGATGCCTT CAAGGACTTT GTAGTGGCAA ATCTCGAG

```

(2) INFORMATION FOR SEQ ID NO:233:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 422 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:233:

```

GAATTCGGCC TTCATGGCCT ACCTTGATAC ATCAGCTGAC CTCATTTCCG GATACCTTTT      60
CCCCCCCAG AAGTACAACA TCTGGGCGC CCCAGCCCGA AGACAGATCG TCGCTCCCTG      120
GACAAATCAGA CGAATTCTCC CCCCCCGCG AAAAAAAG CCATCCCCC GCTCTGCCCC      180
GTCGCACATT CGGCCCCGCG GACTCGGCCA GAGCGGCGCT GGCAGAGGAG TGTCCGGCAG      240
GAGGGCCAAC GCCCGCTGTT CGGTTGCGA CACGCAGCAG GGAGGTGGGC GGCAGCGTCG      300
CCGGCTTCCA GACACCAATG GGAATCCCAA TGGGGAAGTC GATGCTGGTG CTTCTCACCT      360
TCTTGGCCTT CGCCTCGTGC TGCATTGCTG CTTACCGCCC CAGTGAGACC CTGTGTCTCG      420
AG

```

## (2) INFORMATION FOR SEQ ID NO:234:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 412 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:234:

GAATTCGGCC	TTCATGGCCT	AAGAGATTAA	GTGATTTACT	CAAGGTCATA	TTCCTTGGAA	60
GTAGCAAAAC	TTCTGGACCA	GATTTCTGAT	TCCAAAGGCG	GTACTGCTTG	TACAACACTC	120
TGAGAAGTAA	TTACTGTGGA	GCAAAGCAAA	AAGAAGTCTA	AAAGCAGGTG	ATAGGTGTAG	180
ATTTAGATAG	TGTAAGGTA	GGCTAAAGTG	TTGTAACAAA	TGCACCCTCA	AGTAGGTAAT	240
GGCTCAAAAC	CAATAGATGT	TCACTTCCCA	CATCTCAGAG	CAAATTGGGT	TCTCCTCATC	300
AGCTAAAGCT	TTCCTACATG	GGATGATTTG	GGGAGCAAGA	CACTCCATCT	ATGGCTCCCT	360
TACCCTCCAA	GGCCTTCTTA	TTGTCTTTAT	GTAAACAGTG	GAAGAGCTCG	AG	412

## (2) INFORMATION FOR SEQ ID NO:235:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 574 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:235:

GAATTCGCCT	TCATGGCCTA	GGCTTCTTCG	GAGCTGTGTA	NTCTTAATTT	GCTTTGCTGC	60
TGGCTGGCTG	ACAGCTGATG	GGGGACTCCT	CANGACGGAC	TCCCTTCCAG	ATGCACCCAT	120
CTCCATCCTT	CTCAACTCCC	CAACCTTTGT	CCTCCCCACT	CTTCGCTCGC	GCGGCGGTCT	180
GAGACCACCA	GGACCAGTTT	CAGGGGTTTC	CTTCTCCAGC	GAGACTTGGC	AGAACAGGCT	240
TAAAAAGCAA	AGGAGGCAGC	GGAAGACTGT	GAATTCCTTT	GCACAATTGA	TGATATTTAT	300
CATTGTGCCC	AGTTTCTACA	AATAAAAGAT	GGGTGGATTA	TTTCTCGAT	GGAGGACAAA	360
ACCTTCAACT	GTAGAAGTTC	TAGAAAGTAT	AGATAAGGAA	ATTCAAGCAT	TGGAAGAATT	420
TAGGGAAAAA	AATCAGAGAT	TACAAAAAAT	ATGGGTGGA	AGATTAAATC	TGTATTCCTC	480
AGTTCTCTAT	CTGTTAACAT	GCTTAATTGT	ATATTTGTGG	TATCTTCCTG	ATGAATTTAC	540
AGCAAGACTT	GCCATGACAC	TCCCACATCT	CGAG			574

## (2) INFORMATION FOR SEQ ID NO:236:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 332 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:236:

GAATTCGGCC	TTCATGGCCT	AGGCGCGGCC	CGGGTTCCCG	TTCCCCGCGG	AGCCATGCGG	60
TACAACGAGA	AGGAGCTGCA	GGCTCTGTCC	CGGCAGCCGG	CCGAGATGGC	GGCCGAGCTG	120
GGCATGAGGG	GCCCCAAGAA	GGGCAGCGTG	CTGAAGCGGC	GGCTGGTGAA	GCTGGTGGTG	180
AATTTCTCT	TCTACTTTCTG	GACAGACGAG	GCCGAGCCCG	TCGGAGCCCT	GCTGCTGGAG	240

CGCTGCAGAG TCGTCCGGGA AGAGCCCGGC ACCTTCTCCA TCAGCTTCAT TGAGGACCCT 300  
GAGAGGAAGT ATCACTTCGA GTTCAGCTCG AG 332

## (2) INFORMATION FOR SEQ ID NO:237:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 238 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:237:

GAATTCGGCC TTCATGGCCT AATTGCAAGA TCACGGAATC TCCTGAATCA TTAAGAAAAG 60  
ATAAAATATC ACAAGCATCT TTAGTGTTAT GTGTATTCAG TAATTCTTTG GAGTTGTATT 120  
TATTAAGCTT ACCAGATTTT AAAGGCATAT AAAATGTGGT AAGATATGAG ACACATACTG 180  
AAATATCAGT GCAAAGGGAG AATGGTAGTT GAATGGTCAG AAACGAAAAA GCCTCGAG 238

## (2) INFORMATION FOR SEQ ID NO:238:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 180 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:238:

GAATTCGGCC TTCATGGCCT AGAAGCATTT TTTGTTATTG TGAAACATTT TTATACTTTC 60  
ATTATAATTT GTTGAGCCTA GAGTTGGGCT ATTTGAATAT TTATTATGAT AATCTTTTGG 120  
CTAATGGTAA CAGCATATCT TGTCTAACA AAATTACTGT TAACAGCAAT CGAACTCGAG 180

## (2) INFORMATION FOR SEQ ID NO:239:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 578 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:239:

GAATTCGGCC TTCATGGCCT ACTGAGATCC AGACCAGCTC CTCCCAGACC TCTCCAGAAG 60  
AAGCCATGGG AACCCCTCGT ATCCAGCATT TGCTGATCCT CCTGGTCCTA GGAGCCTCCC 120  
TCCTGACCTC GGGCCTAGAG CTGTTTGTGC AAAAGGGTCT GTCCATGACT GTGGAAGCAG 180  
ATCCAGCCAA TATGTTTAACT TGGACCACAG AGGAAGTGA GACTTGTGAC AAAGGGGCAC 240  
TTTGCCAGGA AACCATACTA ATAATTAAAG CAGGGACTGA GACAGCCATT TTGGCCACGA 300  
AGGGCTGCAT CCCGGAAGGG GAGGAGGCCA TAACAATTGT CCAGCACTCT TCACCTCCCG 360  
GCCTGATCGT GACCTCCTAC AGTAACACT GTGAGGATTC CTTCTGTAAT GACAAAGACA 420  
GCCTGTCTCA GTTTTGGGAG TTCAGTGAGA CCACAGCTTC CACTGTGTCA ACAACCCTCC 480  
ATTGTCCAAC CTGTGTGGCT TTGGGGACCT GTTTCAGTGC TCCTTCTCTT CCCTGTCCCA 540  
ATGGTACAAC TCGATGCTAT CAAGGAAAAC CTCTCGAG 578

## (2) INFORMATION FOR SEQ ID NO:240:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 334 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:240:

```

GAATTCGGCC TTCATGGCCT ACATGAATCC ACTCCTGATC CTTACCTTTG TGGCAGCTGC      60
TCTTGCTGCC CCTTTGATG ATGATGACAA GATCGTTGGG GGCTACAAC GTGAGGAGAA      120
TTCTGTCCCC TACCAGGTGT CCCTGAATTC TGGCTACCAC TTCTGTGGTG GCTCCCTCAT      180
CAACGAACAG TGGGTGGTAT CAGCAGGCCA CTGCTACAAG TCCCGCATCC AGGTGAGACT      240
GGGAGAGCAC AACATCGAAG TCCTGGAGGG GAATGAGCAG TTCATCAATG CAGCCAAGAT      300
CATCCGCCAC CCCCAATCG ACAGGAGACT CGAG                                     334

```

## (2) INFORMATION FOR SEQ ID NO:241:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 368 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:241:

```

GAATTCGGCC TTCATGGCCT AGGGCACCAC TGAGTTCAGT ACTTCAAAAT TGCCGTGCTC      60
TACCTCTCCC CAGTGCACAA AAACACTCTC CACACCAAGC TGCTGCTGCT GGGGGATGGA      120
GGGATGGCGT CAGCGATTCA AGACTGTTT TCCTACCTGT TCAGCACTTC TTTCAGCGAT      180
ATGAAGTTAA ATCCAGTCTT TCCCTGTCTC CAGGCATCAT CGCCATCAAC ATACAGCCAT      240
ACTCCAGGAT TGCCCATCTT CAACATAAAC GGACTCTCCT GGACTCCACT TCCCACATCA      300
GTCACAGCCA CACTTCTCTG GAAAGAAGTC TACACTCTTC ATTCACTTTC ATTCACCCAC      360
TGCTCGAG                                     368

```

## (2) INFORMATION FOR SEQ ID NO:242:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 478 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:242:

```

GAATTCGGCC TTCATGGCCT AGAGAAAATA AAGAGTTATA TCAGAAATTT ACAAACATAA      60
CTTTTAAAT TTTAAATTGC AAAATATATA TCATACGAAA ATGAAAATTA TAATCTTCT      120
TGGATTCCTG GGAGCCACAT TGTCAGCCCC ACTTATCCCA CAGCGTCTCA TGTCTGCCAG      180
CAATAGCAAT GAGTTACTTC TTAATCTTAA TAATGGTCAA CTTTGGCCAC TACAACCTCA      240
GGGCCCACTT AATTCATGGA TTCCACCTTT CTCTGGAATT TTACAACAGC AGCAGCAGGC      300
TCAAATTCCA GGACTCTCCC AGTTCTCTTT ATCAGCTCTA GACCAGTTTG CTGGACTGCT      360
CCCAAATCAG ATACCCCTAA CAGGAGAGGC CAGTTTGGCC CAAGGAGCCC AGGCAGGCCA      420
AGTTGATCCC TTACAGCTTC AAACACCGCC TCAGACACAA CCAGGCCAC GTCTCGAG      478

```

## (2) INFORMATION FOR SEQ ID NO:243:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 490 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:243:

```

GAATTCGGCC TTCATGGCCT ACTTACAGAA CCTATTCACT GGAAGGAAG CCCTCATTAT      60
AATGATTTTC ATTCTTATGT GTGTTTCAGG ACGACTGGGT TTGGATTTCAG AAGAGGATTA      120
TTATACACCA CAAAAGGTGG ATGTTCCCAA GGCCTTGATT ATTGTTGCAG TTCAATGTGG      180
CTGTGATGGG ACATTTCTGT TGACCCAGTC AGGCAAAGTG CTGGCCTGTG GACTCAATGA      240
ATTCAATAAG CTGGGTCTGA ATCAGTGCAT GTCGGGAATT ATCAACCATG AAGCATACCA      300
TGAAGTTCCC TACACAACGT CCTTACCTT GGCCAAACAG TTGTCCTTTT ATAAGATCCG      360
TACCATTGCC CCAGGCAAGA CTCACACAGC TGCTATTGAT GAGCGAGGCC GGCTGCTGAC      420
CTTTGGCTGC AACAAAGTGTG GGCAGCTGGG CGTTGGGAAC TACAAGAAGC GTCTGGGAAT      480
CAACCTCGAG

```

## (2) INFORMATION FOR SEQ ID NO:244:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 386 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:244:

```

GAATTCGGCC TTCATGGCCT AGAAAAAGA AACTGTCGTG GATACTGTCA GTGTATATAT      60
TTATGTGGTA CCTGAGAGCC ACCCCAAATT AGATTGACTT TAGATCGTTT ATACAAAAT      120
AGCTTGAAGA ACTGTTTTTT CCATGGTAA TGTCTTTGAA TATTAACCTA GTTATGTTAG      180
ATTCCTACCT CAGTGGTACT GTCACAGCCA TTGGTTACAT TTCTGAAACC CTTCAGAGTA      240
AGAGTTTTGG TTTTTGTTT TGTGTTGTTT TGTGTTTGA GATGGAGTCT TGCTCTGTCTG      300
CCCAGGCTGG AGTGCACTGC AGCAACCCAG GTGGAGTGCA GTGCAACCTC CACCTCCCAG      360
GTTTAAGCGA TCCTCCTAAC CTCGAG

```

## (2) INFORMATION FOR SEQ ID NO:245:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 396 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:245:

```

GAATTCGGCC TTCATGGCCT AGCTTCAGTA GCAAATAAGG ACATCATCTG CTATAACCTA      60
CAAGCAGTTG GACAGATATT CTACATTTC TCATTCTCT ACACCGTCAA TTACATCTGG      120
TATTTGTACA CAGAGCTGAG GATGAAACAC ACCCAGAGTG GACAGAGCAC ATCTCCACTG      180
GTGATAGATT ATACTTGTCG AGTTGGTCAA ATGGCCTTTG TTTTCTCAAG CCTGATACCT      240
CTGCTATTGA TGACACCTGT ATTCTGTCTG GAAATACTA GTGAATGTTT CCAAACCTC      300

```

AGTCAGAGCC ACAAGTGTAT CTTGATGCAC TCACCACCAT CAGCCATGGC TGAACCTCCA 360  
CCTTCTGCCA ACACATCTGT CTGTAGCACA CTCGAG 396

## (2) INFORMATION FOR SEQ ID NO:246:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 514 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:246:

GAATTCGGCC TTCATGGCCT ACACCTTTCA CTTATCTTAT AGTCACTTAA TTCCTCTACT 60  
 CTTATCATT GATATTTTCA TTTTATTGTG TATCTCTGTN NGGCCAAATC AATAGATTTT 120  
 GAACAATCTC AACTTAACC TTTTAAAAAA ATCTAATAGG CCCAGTTTCC TCTCAACAAT 180  
 CTTTGAAGAA CCTTCGAGAA AGGAGAAACA CAGACCTCCC GCTTCTAGAC ATGCACACTG 240  
 TAACCCGGGA AGAGGGAGAA GGCATGGAGA CAACTGATAC GGAGTCTGTG TCTTCCGCCA 300  
 GCACATACAC ACAGTCTTTA GAGCAGCTGC TTAACCTCTCC CGAAACTAAA CTTGGTATGT 360  
 TACTCTGTCT AAATATGTTT TTCTTATTTA ATTCACTGT CTTATTAAAT TACTANTACT 420  
 CTAAGTTACA TATGCTTTT NGGGCTGCTC CAATAAAATT TCTTTCAATA TTCCACTACC 480  
 TGTGTGTATT AGGTCTCTA GAGGGACACT CGAG 514

## (2) INFORMATION FOR SEQ ID NO:247:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 323 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:247:

GAATTCGGCT TCATGGCCTA GGTTTTCTGT ACATGGAGAT TAAACTGTCT TCCAAAGTGA 60  
 AGAGTTTATT GTTCTAGATC TTGAGCACAA AGGTGGGTAT ACGTTAATAA AAAAAATAGC 120  
 AAGGGAAGAA AATCATTTC TTCATACCAA GTAAGAGAGC ACTTATCATG GTAGGCACTG 180  
 GCTTTGCAAT TATGAGACCA GTAGTAGAAA TAGCTTTAGT TTCCTCAATT TTCTGGAGT 240  
 ATTCTTCAGA CTTTCTTTAC ACTGCTCAAG GTGGGGCGAG TGGCAGGGCG GACCCTGGCG 300  
 ACCTGACGCT GCGGAGGCTC GAG 323

## (2) INFORMATION FOR SEQ ID NO:248:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 423 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:248:

GAATTCGGCC TTCATGGCCT AGGAACAGTG TGTGTTTTTG TGTGTGGCTT GCATTCTCTC 60  
 CTCCGTTTTT GGAGCAGCGT GAGATTATTG CAATGCTACA TTCCTCCCT CTGCGCCTC 120  
 CTACCCCATC AATGTCTCAT GGTGGTGTG ATAGAGGCTA TGGGAGTGAA GACCACTGGT 180



GTTAGTCTGT GTATAGTTCC TGGGGTGTGG CGAGTACCAG CTCTGACAGC GGAAGAGAAC	240
TATACTGTTG ATTCCCATT TTTCTCAGTAG GTGTGTTCTA TAAAATTGCT GCGAACACCA	300
AATTAGCGAA TCCTGAACCA TCGTTCCCAG AGGAATAGGG GGTTAGGGTC CTGTGATCCT	360
CAAGTTGCAA CATTGTCTTC GACTGATTAA TATGTAACCT TGTTTTATAT GTGCAATCTC	420
GAG	423

## (2) INFORMATION FOR SEQ ID NO:249:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 124 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:249:

GAATTCGGCC TTCATGGCCT ACCGAAACCA AATAATTCAA GCACTGCTTA TTACAATTTT	60
ACTGGGTCTC TATTTTACCC TCCTACAAGC CTCAGAGTAC TTCGAGTCTC CCTTCACCC	120
CGAG	124

## (2) INFORMATION FOR SEQ ID NO:250:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 289 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:250:

GAATTCGGCC TTCATGGCCT ACATCTATGA CTTTTTAAAC ATGCGGCGTT TTGTGAATAT	60
CATGATAATA ACAAGAGTCA ACAGGCTAAG TGAGAGGAGA GGGATGCTAC GCCTACGCTG	120
CCCCCACCAC GGCCAGCCGG CTCTGCGGCC TTTGGTGTG GATTTTCTTT GTGATTTTAC	180
GGGGTTTTGT GTTTTTTTTT TCTGTTTTT TGTTTTGTTA TTTTCTCTG TCCACTTGAT	240
TTGCATGCAA CACCACAAA AAGGAAACAC AAAACCCCGT CTGCTCGAG	289

## (2) INFORMATION FOR SEQ ID NO:251:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 302 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:251:

GAATTCGGCC TTCATGGCCT ACACTATGAG AGGACCGATT GTATTGCACA TTTGTCTGGC	60
TTTCTGTAGC CTCTGCTTT TTCAGCGTTG CCACACAATG TCTGGCCTTC CCAAAATAG	120
AAAGGAGGAG GGAGATAGCA CATGTTTCATG CGGAAAAAGG GCAGTCCGAT AAGATGAACA	180
CCGATGACCT AGAAAATAGC TCTGTACCT CAAAGCAGAC TCCCAACTG GTGGTCTCTG	240
AAGATCCAAT GATGATGTCA GCAGTACCAT CGGCAACATC ATTAAATAAA GCAAACTCG	300
AG	302

## (2) INFORMATION FOR SEQ ID NO:252:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 165 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:252:

```

GAATTCGGCC AAAGAGGCCT ATTTTCTTTT CTGCAAACAC TGTGTATAGT GAGACTTGTT      60
CTACTTTGGA GAACAGGTTA CCTTTTGAAA ATGAGGTTGA GTTCTTCCTT TTCTGATGCA      120
TTGATTTTGG AAGATTTTCT TTTCCCCCTT CCCCTCTCCC TCGAG                      165

```

## (2) INFORMATION FOR SEQ ID NO:253:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 376 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:253:

```

GAATTCGGCC AAAGAGGCCT AGCTTCTTTG TATAATTAAA TCTGAGTTTT GTTTGAGCAT      60
CTTTCAACAT GTACCATATT TATGACAATT CTCTTCCATA GGATCTATCT GTTCTGCAAC      120
AAGTATTGAT CTTACAGTAA AATTTTTCAC AAATTCATTA GATTCTATGT CTCTTTTCT      180
GGTAGGAATT TTTGTGCAGG TAGCTATCTC TTGCCCTAGA TTATTCTCCT TGTTTAGCTG      240
CTGATTCTTA AACTGGCCTC TAGATTTCCT GATTTCCTCC GGTACAGACT TTCTCTTGC      300
AAGTTCTTCC ATCTCTAATC TTTGAGATTA ATCTTCTTTT GAAATGTCCT GCTGCTCTAC      360
TCTTGATGTT CTCGAG                      376

```

## (2) INFORMATION FOR SEQ ID NO:254:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 281 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:254:

```

TCTCCAAGGG AAAATAAATG CTTTACTAT CTAGTTTGTC TCTTTGAGAA TTAAACTCT      60
TTTTTTTTTT TTTCAATCCA GTAGCTTTTG GGGTAGAGTT TGGCTCTTG AGAATTGCAT      120
ACTAATTAAT TTTAGGGGTG ATTTGTACAT CATCTCTATA TTCCTGAAAC ACAGTAGAAA      180
CAGCCAGCAG TCAGGCAACC ATCTACCATG ACCATTAAAA CATCCCCAAA GTGAAACACC      240
AGATGTGATC TGCTAGATTT AGTGGAGGCG GCTGGCTCGA G                      281

```

## (2) INFORMATION FOR SEQ ID NO:255:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 571 base pairs
  - (B) TYPE: nucleic acid

(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:255:

```
GAATTCGGCC AAAGAGGCCT AGCTAGNCTT GCTCAGCTTT GTGGATACGC GGAAGTTTGTG 60
GCTGCTTGCA GTAACCTTAT GCCTAGCAAC ATGCCAATCT TTACAAGAGG AAAGTGTAAAG 120
AAAGGGCCCA NCCGGAGATA GAGGACCACG TGGAGAAAGG GGTCCACCAG GCGCCCCCAGG 180
CAGAGATGGT GAAGATGGTC CCACAGGCCN TCCTGGTCCA NNTGGTCNTC NTGGCCCCCN 240
TGGTCTCGGT GGGAACTTTG CTGCTCAGTA TGACGGAAAA GGAGTTGGAC TTGGCCCTGG 300
ACCAATGGGC TTAATGGGAC CTAGAGGCCC ACCTGGTGCA GCTGGAGCCC CAGGCCCTCA 360
AGGTTTCCAA GGACCTGCTG GTGAGCCTGG TGAACCTGGT CAAACTGGTC CTGCAGGTGC 420
TCGTGGTCCA GCTGGCCCTC CTGGCAAGGC TGGTGAAGAT GGTCAACCCTG GAAAACCCGG 480
ACGACCTGGT GAGAGAGGAG TTGTTGGACC ACAGGGTGCT CGTGGTTTCC CTGGAAGTCC 540
TGGACTTCCT GGCTTCAAAG GCAACCTCGA G 571
```

(2) INFORMATION FOR SEQ ID NO:256:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 453 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:256:

```
GAATTCGGCC AAAGAGGCCT ATGCGCAAGG ATCAAGCCGA CTACCTGTGC TGTCTACTGG 60
GACAGCAGTC TCCGAGCTAC TCCGTACCTC CCTCTGCCAG GTCGTGGAGT TAGGCCCCAG 120
TCCCTACTTG TCACTGTTTC CCACTGTGCT CCTAACTGTG CAGCACCTGG GAGCTCTGGC 180
CTGGGGCTGG AGGCCCTGGT AGGAGCTGCA GTTGGAGGCC GTTCTGTGCC CAGCAGCGGT 240
GAGCGGCTCC CATGGGCCCT GTGTCTGCAG GGAGCCAGGG CTGCGGCACA TGTGCTGTGA 300
AACTGGCACC CACCTGGCGT GCTGCTGCCG CCACTTGCTT CCTGCAGCAC CTCCTACCCT 360
GCTCCGTGTC CTCCTCTCC CCGCGCCTGG CTCAGGAGTG CTGGAAGAGC TCACGCCTCG 420
GCCTGGGAGC CTGGCCTCTT GATATACCTC GAG 453
```

(2) INFORMATION FOR SEQ ID NO:257:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 307 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:257:

```
GAATTCGGCC AAAGAGGCCT ATGTCATGAG TGAAGTTGGC AATGTCCTTG TTAAAACCCAG 60
TTGGACATTA TCTTCCACAT TGCGAAGCTA TACATGTCTG ATATGTTCTG AAAGAATAGA 120
ATTTATAGTT AGATATACTA TTTTGTGATTA TTACTCAGA AGGAGACATG TAATTATTCT 180
TATGTTGTCA TGAAAATCTA TTAAATGCAT TTATATTTCA CATCAATGTT ACGAAGTTCC 240
ATTATTATTA TTTTACAGAG GGAAGCCAA GATACAGGAG TGGAATTAC TTGGCCTATC 300
GCTCGAG 307
```

(2) INFORMATION FOR SEQ ID NO:258:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 360 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:258:

GAATTCGGCC	AAAGAGGCCT	AAGAAGATGA	ACAAGCGCCA	GCTCTATTAC	CAGGTTTTAA	60
ACTTTCGCCA	TGATCGTGTC	TTCTGCACTC	ATGATATGGA	AAGGCTTGAT	CGTGCTCACA	120
GGCAGTGAGA	GCCCCATCGT	GGTGGTGCTG	AGTGGCAGTA	TGGAGCCGGC	CTTTCACAGA	180
GGAGACCTCC	TGTTCTCTAC	AAATTTCCGG	GAAGACCCAA	TCAGAGCTGG	TGAAATAGTT	240
GTTTTTAAAG	TTGAAGGACG	AGACATTCCA	ATAGTTCACA	GAGTAATCAA	AGTTCATGAA	300
AAAGATAATG	GAGACATCAA	ATTTCTGACT	AAAGGAGATA	ATAATGAAGT	TGCTCTCGAG	360

(2) INFORMATION FOR SEQ ID NO:259:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 411 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:259:

GAATTCGGCC	AAAGGGGCCT	ACCTGAAACG	GCAGTCCGGT	CCCTCCGACA	TTGTCCAGCG	60
GAGGGCCTGG	GCTTCACACT	CTGTGCCTCC	CGGCGCTACC	TGGCACGATG	CCGAGCACAC	120
AGCAGATGCT	CAATGAATGC	CCAACCAACC	CTATACCTGG	CTTGGATCTC	AAGCTCCCTG	180
GCCGGGGCCT	GATGGAAGGC	TTTGGGGGCA	CAGGAGGCTG	CCCCCTTGGG	CGCCCCCGGC	240
CACCTCTTCG	CCCTCGAATC	TCAGGCAGCT	TGGTCAGGAA	CTTCTTCTCC	ACGTATTTAG	300
CGTGAATCCA	GGCCTCCTTC	TCCTGCCTGT	GGGAGGGGAG	AAGCACGCAG	TCTTCCCTCT	360
TCTGCTCCAG	GGGTCCCCCA	TTCCCCTGGG	AGGCTAAACC	CATAGCTCGA	G	411

(2) INFORMATION FOR SEQ ID NO:260:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 324 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:260:

GAATTCGGCC	AAAGAGGCCT	AGGGAGTGTT	TGCGTTTCTT	CTCCGTTTGG	CAGTGAAACA	60
CATCTCAGAA	AGGTGGAGCT	GATCAGAATA	ATGTTTCAGCA	TCAACCCCT	GGAGAACCTG	120
AAGGTGTACA	TCAGCAGTCG	GCCTCCCCTG	GTGGTCTTCA	TGATCAGCGT	AAGCGCCATG	180
GCCATAGCTT	TCCTGACCCT	GGGCTACTTC	TTCAAAATCA	AGGAGATTAA	ATCCCCAGAA	240
ATGGCAGAGG	ATTGGAATAC	TTTTCTGCTA	CGGTTCAATG	ATTGGACTT	GTGTGTATCA	300
GAGAATGAAA	CCCTCAAGCT	CGAG				324

(2) INFORMATION FOR SEQ ID NO:261:

- (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 370 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:261:

GAATTCGGCC	AAAGAGGCCT	AGTGGGGCTG	TATTTTAATA	CAAGAAAGAC	ATTGCTCTAG	60
AACATGGCTC	GCCTTTGCTT	CAGGGCCTAG	CAGTTTATTT	TAGCCATAAG	GGTAAGGGAG	120
CAGGTCAGAA	ATGACTTTTA	GTGTAATCCT	ATCTGTAATT	AAAAATACAA	ATGCTGTCAT	180
AAGATCAAAT	GTTATCAAAA	ATCAGTATTT	AAAATTAAAT	TTACCCCCAA	ATTTCTTTCA	240
AAAAAGTTGT	AATGTTCTTT	TTCACTGAAG	CCTTTGCACT	GCTAGAGCTG	AAGAATGTGA	300
TCAATCGGCT	TGTTGAATAA	TCCCGCACAG	TAGGTATTCC	GCTGAAGCCA	ACTCTAGTGC	360
GGGGCTCGAG						370

(2) INFORMATION FOR SEQ ID NO:262:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 286 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:262:

GAATTCGGCC	AAAGAGGCCT	AAGAAATAGG	ACTATACAAA	TTTTCAACTT	CTTTTGATAT	60
CAGTTTGGGT	AAGATGCATT	TTTCTTCTGA	GAATTTGTTT	CATTGAATT	TCCAAATTTA	120
TTAGCATGAA	GTTGTTAATA	AAAATCTTAT	ATTTTACTC	AAATTTTGAG	ATAGTTGTAG	180
ATTTACATGA	AGTTGTAAAG	AATAATAGAA	AGATCCTGTG	TACCTTTTCC	CAGTTTTCCT	240
CAAAAGTAAC	ATTTTGATA	ACTCTAGTAC	AGTAGCACAA	CTCGAG		286

(2) INFORMATION FOR SEQ ID NO:263:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 310 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:263:

GAATTCGGCC	AAAGAGGCCT	AGGCAAACCG	TGTACTAAGC	ATCAGTGCAG	AGATAGTGAA	60
TGAGACACAG	TATTCCCACC	TTTGAGCAGT	GCCAGTCTAG	TATTAGAATA	TTTTTGGCTA	120
AAAAATTATT	TTGAAGCATA	AAGAAGCTTT	TGTTTGCTCT	GGTGATTTTC	ATAACATATT	180
CACATTCTTA	ATGTATTTTT	GGTTTTTCAG	AAAGTTACTT	CTGGCCTGTG	TTCTTTCAGA	240
ATATAGGTTG	CAGCTTGTGT	TAAGTGCAGG	AACTATTGAT	AGACTGAGTT	TAGAAGAAGG	300
GAAACTCGAG						310

(2) INFORMATION FOR SEQ ID NO:264:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 321 base pairs  
 (B) TYPE: nucleic acid

(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:264:

GAATTCGGCC	AAAGAGGCCT	AGGACTTTGG	GGCAGGTGAT	TAAATTTATA	TAGGTACCTC	60
AAGAAAAAGA	ACCTGAATAT	GCTGCATTTT	CTTTCTTTAG	CTTTTACATG	TAGCATTTTG	120
TTTTGCTTTT	GTTATTTTGG	TTTTGATATA	TGCTTTTGGG	ACCCCAATAG	ACTGTTGAAA	180
GAAATTTAAA	AATTACTCTT	GTAGGGATAT	AGTATCCTTA	AAAAATAAAA	ATTAAAAAAA	240
ATTTAAAAAA	ATTGCTGCAA	TATCTGGCTC	GAAGGTTGCC	CTATATTAGA	ATAATACTTT	300
AGCCAAACAC	ATCAGCTCGA	G				321

(2) INFORMATION FOR SEQ ID NO:265:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 550 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:265:

GAATTCGGCC	TTCATGGCCT	TGTGATTCTG	CAAAGGAGGA	ACAATAATTC	ACTGTTTCCC	60
AAACTTATCT	GACCATAGAA	CATATNTCTC	AGAGTATTTT	TCAAGAGTAG	TATTTTCTGT	120
AATATATGAT	GAAAAATAAT	CGTATCGGCC	ATCTTTGTAC	ATAAGGTCAA	AATGTCAGCC	180
AGCCCTGAAA	TAAATGCAAG	CCAAAAGGTA	GAGAGATAAG	TGAATAAAGC	TGGCACACTG	240
TCAGTCCGGA	GTACCATGCT	GCATTCTGAG	TCAAGCTCCA	GGAAACTGAG	CTAGGGTTTG	300
TCTCTAAGAA	GAAAACTGG	AGCGTCCAAA	GCTTCTGGAT	TCCATTTAAT	TAAAACCCTT	360
TTAAATTAAA	TCCTTGTAAC	TGAAGAGTAT	CGGTGGATGA	AGAAAAATA	GTCTCACATG	420
TCTTCATTTC	CATCCTTGGC	TCAGTACAGC	TCCAGTTCCA	TTATTCTTAA	ACATCTATTA	480
ACATGATTGC	TAAATAATTA	CACAGGCTAA	CTGCCAAGCA	TTTTTCACAG	GAAGCAAGGC	540
ACTGCTCGAG						550

(2) INFORMATION FOR SEQ ID NO:266:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 301 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:266:

GAATTCGGCC	TTCATGGCCT	AGTTAAGTGG	GAAGTTAAAT	GGCAAGTACT	AGAATGCCAC	60
CTATGGCAAG	CACTAGAATG	GTCTAGGTGT	GAAATGAGGG	AGTAATGTCA	GGGAGTCAAG	120
GTGGCCATCC	ATAGCAGTGA	TTCTTATCTG	GGGTAGGGGG	TGAATTTTCA	GTGGAGGGAG	180
GTCTCTGGAC	ATGGACCCCC	AGGCAGGGCT	ATCCAATCAT	CTGAGGGGTG	AGCAGTGTTT	240
AGCTCAGTAA	AAGTAAGGGA	AAAAAATAG	CAGTCTCTAA	AAGGAACATA	GAGCGCTCGA	300
G						301

(2) INFORMATION FOR SEQ ID NO:267:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 353 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:267:

GGGGAGAGCA TCAGGAAGAA CAGCTAATGG ATGCTGGGCT TAATACCTAG GTGATGGGAT	60
GGTCTGTGCG GCAAACACCA TGGCACAAGT TTACCTATGT AACCTGCACA TCCTGACATG	120
TACCCCTGAA CTTAAAATGA AAGTTGGAGA CCAAAAAACA AAACACCATA AAACCTACAAA	180
ACTTCTTAAA CAATAAACTA GTAGAAAATT TCTAAAATAT ATAATTCAAG AATTATATAA	240
GAGCTCTTTT TATATGTAAA TATAAATTTA AATACAAGAG AAACATCTAA AACAGGTTGC	300
TTCTGAGAAA CGTGAAGTGG TATTAAGAAG AGGTATATAG GGGCTCACTC GAG	353

(2) INFORMATION FOR SEQ ID NO:268:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 241 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:268:

CATTATTTAA CCTTTTAAAC AATCAAGAGA TTGCTTTTAA AATTGTCTCT AAAAAGGTTT	60
GATTTTTTAC GAAAGAGAGA GCACTTGAAT ATATCTTTAT GTACCACCGT GTCTCTTTTT	120
GTTAGATTTT TCATCTGTGG GTATAATATA AAATATTCTT AAAATGAAAG CTTTACGCTT	180
GTGTTTGAGA CTAAGCAACT TGCATTGTGT CATGACCCTT CTAATACCAC AAACCCTCGA	240
G	241

(2) INFORMATION FOR SEQ ID NO:269:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 330 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:269:

GAATTCGGCT TCATGGCCTA CACTCAACCA CTGAAAAAGC TGAAAATCAA TGTTTTTAAG	60
GTTCACAAGT GTGCCGTGTG TGGCTTCACC ACCGAAAACC TGCTGCAATT CCACGAACAC	120
ATCCCTCAGC ACAAATCGGA TGGTTCTTCC TACCAGTGCC GGGAGTGTGG CCTCTGCTAC	180
ACGTCTCAG TCTCTCTGTC CAGGCACCTC TTCATCGTAC ACAAGTTAAA GGAACCTCAG	240
CCAGTGTTCA AGCAAAATGG GGCTGGGGAA GATAACCAAC AGGAGAACAA ACCCAGCCAC	300
GAGGATGAAT CCCCTGATGG CCCCTCGAG	330

(2) INFORMATION FOR SEQ ID NO:270:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 297 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:270:

GCGGGCACCA	TTTCCAGTAT	GTACCAAACC	AAAGCCGTCA	TCATTGCAAT	GATCATCACT	60
GCGGTGGTAT	CCATTTCAGT	CACCATCTTC	TGCTTTCAGA	CCAAGGTGGA	CTTCACCTCG	120
TGCACAGGCC	TCTTCTGTGT	CCTGGGAATT	GTGCTCCTGG	TGACTGGGAT	TGTCACTAGC	180
ATTGTGCTCT	ACTTCCAATA	CGTTTACTGG	CTCCACATGC	TCTATGCTGC	TCTGGGGGCC	240
ATTGTTTCA	CCCTGTTCT	GGCTTACGAC	ACACAGCTGG	TCCCGGGGAA	CCTCGAG	297

(2) INFORMATION FOR SEQ ID NO:271:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 407 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:271:

GCCAGACTAC	CACAAGCCCC	ACCCACACTA	TGCCAAGCCC	TACCCATACC	ACAGCAAGCC	60
CCACTCATAC	TTCCACAAGC	CCCCCCATA	CCCCCACAAG	TCCCACCCAC	AAAACCACTA	120
TGTCACCTCC	CACCACTACA	AGTCCTACCC	CCAGTGGTAT	GGGCCTAGTC	CAGACTGCCA	180
CAAGTCCAC	CCATCCTACC	ACAAGCCCCA	CCCATCCAC	CACAAGCCCC	ATCGTTATAA	240
ATGTAAGCCC	TTCCACTTCT	CTAGAAGTTG	CTACCCTCTC	CAGCCCCTCC	AAACACTCAG	300
ACCCCAACCT	CCCAGGCAAT	GACTCCCTTC	CCTGTAGTCC	CCCAGTCTCC	GATTCTTACA	360
CTCAGGCAGA	CCCTATGGCC	CCCAGAATC	CCCACCCAAG	TCTCGAG		407

(2) INFORMATION FOR SEQ ID NO:272:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 288 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:272:

ACTGAGCTCA	AGGACCCCTC	CAAGAAGAAG	ATGCAGCACA	TCTCCAACCT	GTCCATCGCT	60
GTCACTGTACA	TCATGTACTT	CCTGGCTGCC	CTCTTCGGCT	ACCTCACCTT	CTACAACGGG	120
GTGGAGTCGG	AGCTGCTGCA	CACCTACAGC	AAGGTGGACC	CGTTTGACGT	CCTGATCCTG	180
TGTGTGCGCG	TGGCCGTGCT	GACAGCAGTC	ACGCTCACAG	TGCCCATCGT	TCTGTTCCCG	240
GTGCGCCGCG	CCATCCAGCA	GATGCTGTTT	CCAAACCAGG	AGCTCGAG		288

(2) INFORMATION FOR SEQ ID NO:273:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 537 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA



## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:273:

```

GAATTCGGCC TTCATGGCCT AGTCAAGCTA GGTAAGCTAA AAAGAAGAAA ACCTGGTTAC      60
AGCCCGGTGA ATTGATTTTT TTCCAGCCGA GAAATAGATA TTTCTCTCAC ATATATTTGG      120
AAAACTTTAG TCATCTTCAT AAAACTTAAA AAGTTACCTA AGCACACACA GCAAGTTTCT      180
CCTTTCTTCC TTTTCCACAC CCTTACCAGT TCACTATGTT TCTACCAATC CAGTGCCCGAG      240
TTGCCAATGA TGTGCTCTC ACATGAATTT ACTGCATTCC CTTCTGGTTC CCCAGAAGGT      300
CTTGAAGAAA GAGGTCAGA CTAGTGGACC CAAACAGAAAT TTCTTGGCTG GTGATACTCA      360
GATTGTGTTT AGAGCCTGGT ATGAAGAAGG GGCCAGGTGT AAGAAGTAGT TAATCAACTG      420
CACGTTGATT TCAGGCTGAA TATTCAACCA TCTGCAGCCA CCCGTCTCTA AAAGTCTAGC      480
TGAAGCACAA TTGATTGTGC CATAGAATGA GCAAACGCTT GAAAACACAA GCTCGAG      537

```

## (2) INFORMATION FOR SEQ ID NO:274:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 269 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:274:

```

GCGAGCTCGT GTTTTAAAGG ACCAAATAGA AGTTTACCAG GAGAGAAGTG ACAGAAGTGC      60
TGTCTAGATA GAGGAAGGGC ACACACAGAT GCAAGCATGT GCAGAAATGA GCAAACCACT      120
GAGACGCTGC CTTGAGCTCT GTGTCACT GCTATGTTGC AGCCTGGGAG GCTGTTCCCA      180
GTTGAGCCCT TCGGAACCAG CCATGAGATG GCACGGGTAC GCGGAAGGGA GCAGTCTCCA      240
TGGCTGGGTG GTGATGGGGG CTTCTCGAG      269

```

## (2) INFORMATION FOR SEQ ID NO:275:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 361 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:275:

```

GATGGCTCCC CAGAGCCTGC CTTCATCTAG GATGGCTCCT CTGGGCATGC TGCTTGGGCT      60
GCTGATGGCC GCCTGCTTCA CTTTCTGCCT CAGTCATCAG AACCTGAAGG AGTTTGCCCT      120
GACCAACCCA GAGAAGAGCA GCACAAAGA AACGGAGAGA AAAGAAACCA AAGCCGAGGA      180
GGAGCTGGAT GCCGAAGTCC TGGAGGTGTT CCACCCGACG CATGAGTGGC AGGCCCTTCA      240
GCCAGGGCAG GCTGTCCCTG CAGGATCCCA CGTACGGCTG AATCTTCAGA CTGGGGAAAG      300
AGAGGCAAAA CTCCAATATG AGGACAAGTT CCGAAATAAT TTGAAAGGCA AAAAGCTCGA      360
G      361

```

## (2) INFORMATION FOR SEQ ID NO:276:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 296 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:276:

GCCACAATAG	CGGGATTGAT	CTCCTTAGGA	CCTATCTTTG	GCGTTGCCAG	TTCCTTTTAC	60
CTTTTGTGAG	TTTAGGTTTG	ATGTGCTTTG	GGGCTTTGAT	CGGACTTTGT	GCTTGCATT	120
GCCGAAGCTT	ATATCCCACC	ATTGCCACGG	GCATTCTCCA	TCTCCTTGCA	GGTCTGTGTA	180
CACTGGGCTC	AGTAAGTTGT	TATGTTGCTG	GAATTGAACT	ACTCCACCAG	AAACTAGAGC	240
TCCCTGACAA	TGTATCCGGT	GAATTTGGAT	GGTCCTTCTG	CCTGGCAGAA	CTCGAG	296

## (2) INFORMATION FOR SEQ ID NO:277:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 275 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:277:

GAATTCGGCC	TTCATGGCCT	AGGATGTAGA	ATCCTGCTTA	TCTGTGAAAT	GCAGTTGACA	60
CATCAGCTGG	ACCTATTTCC	CGAATGCAGG	GTAACCCTTC	TGTTATTTAA	AGATGTAAAA	120
AATGCGGGAG	ACTTGAGAAG	AAAGGCCATG	GAAGGCACCA	TCGATGGATC	ACTGATAAAT	180
CCTACAGTGA	TTGTTGATCC	ATTTCAGATA	CTTGTGGCAG	CAAACAAAGC	AGTTCACCTC	240
TACAAACTGG	GAACAATGAA	GACAATGAAC	TCGAG			275

## (2) INFORMATION FOR SEQ ID NO:278:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 149 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:278:

TCGTTCCCTT	CATCTCTTCC	CTTGCCAGAG	CAGGGACTCT	CTCCATATAA	ACAAAAGGAA	60
AACCACTGGC	CAGGGTATGG	TCAATACCTC	AACATATCCA	GACATCACAG	CACCAGAACA	120
CCAGTATGTA	TATTCCACAA	GTA CTGAG				149

## (2) INFORMATION FOR SEQ ID NO:279:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 254 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:279:

GCAATCAGAT	AAAGAAAGAC	CTGGCTGACA	AGGAGACACT	GGAGAACATG	ATGCAGAGAC	60
ACGAGGAGGA	GGCCCATGAG	AAGGGCAAAA	TTCTCAGCGA	ACAGAAGGCG	ATGATCAATG	120
CTATGGATTC	CAAGATCAGA	TCCCTGGAAC	AGAGGATTGT	GGAACGTGCT	GAAGCCAATA	180
AACTTGCAAG	AAATAGCAGT	CTTTTTACCC	AAAGGAACAT	GAAGGCCCAA	GAAGAGATGA	240

TTTCTGAACT CGAG

254

## (2) INFORMATION FOR SEQ ID NO:280:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 327 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:280:

GACAGCCTGG AAGTTTGGAG ACCCTGACAC ACCCACCTTC TCACCTGGGC TCTGCGTATC	60
CCCCAGCCTT GAGGGAAGAT GAAGCCTAAA CTGATGTACC AGGAGCTGAA GGTCCTTGCA	120
GAGGAGCCCG CCAATGAGCT GCCCATGAAT GAGATTGAGG CGTGAAGGC TCGGAAAAG	180
AAAGCCCGCT GGGTCCTGCT GGTCTCATT CTGGCGGTTG TGGGCTTCGG AGCCCTGATG	240
ACTCAGCTGT TTCTATGGGA ATACGGCGAC TTGCATCTCT TTGGGCCCAA CCAGCGCCCA	300
GCCCCCTGCT ATGACCCCTG CCTCGAG	327

## (2) INFORMATION FOR SEQ ID NO:281:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 357 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:281:

GCCTGGAACC TGATTCTCCT GACCGTCTTT ACCCTGTCCA TGGCCTACCT CACTGGGATG	60
CTGTCCAGCT ACTACAACAC CACCTCCGTG CTGCTGTGCC TGGGCATCAC GGCCCTTGTC	120
TGCCTCTCAG TCACCGTCTT CAGCTTCCAG ACCAAGTTCG ACTTCACCTC CTGCCAGGGC	180
GTGCTCTTCG TGCTTCTCAT GACTCTTTTC TTCAGCGGAC TCATCCTGGC CATCCTCCTA	240
CCCTTCCAAT ATGTGCCCTG GCTCCATGCA GTTTATGCAG CACTGGGAGC GGGTGTATTT	300
ACATTGTTCC TGGCACTTGA CACCCAGTTG CTGATGGGTA ACCGACGCCC GCTCGAG	357

## (2) INFORMATION FOR SEQ ID NO:282:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 306 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:282:

GCGGGCTGCA GAATGATAGA CGAGCTCAAC AAAACGCTGG CCATGACCAT GCAGAGGCTG	60
GAAAGCTCTG AGCAGCGGGT CCCCTGTTCC ACTTCTTACC ACAGCTCTGG GTTGCACTCG	120
GGTGTGGGG TCACCAAAGC AGGACCTATG GGCCTTCCAG AAATAAGACA AGTGCCAACT	180
GTTGTGATTG AATGTGATGA CAATAAAGAA AATGTGCCCTC ATGAGTCAGA CTACGAAGAC	240
TCTTCTTGCC TGTATACAAG AGAAGAGGAG GAAGAGGAGG AGGACGAAGA CGACGACGAA	300
CTCGAG	306

## (2) INFORMATION FOR SEQ ID NO:283:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 351 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:283:

```

AATCAATCAA CTAGGCATAT GACACAGTAG TCCATTATAA AAGAAGACAT ACATCCAGCA      60
CCATCAACTA ATTCTTAAGA TAAGTTATCT GGGAAAATTG AAGAACAAAT AAATTCAACG      120
AAATACTGTA AAGTGAACGA AGACATAAAA CCAAAGAAAA CTGAGGCCAT TTCTGCCAAG      180
AAAGGAACAG CAAAGAGTAA AGATGAAAAA TATTCTAAGA TAATACCAGA AAAAGATAAT      240
TCCTACATGG ACAAAGATGA GCATGGTTCA TCCTCTGAAA GTGAAGATGA AGCGCTGGGT      300
AAATATCATG AGGCCTTATC CAGAACACAC AATTCCGGAC TACCACTCGA G              351

```

## (2) INFORMATION FOR SEQ ID NO:284:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 233 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:284:

```

AAGTTAAAGG TATTAAATAA ATGAGTTTCT CCTTAATTTT GTTAATGCTC TTTTAGCTAA      60
TAAGACTTTT TCTAGAGTTA CATATTTTAA TCTGTTTCAT TTTTATTTTT TCCTTTGGTT      120
TTATATTTTT AAAAGCCATT ATATCCCTCC CACTGGTAAC ATACACATAC ACAGACACAC      180
ATCTATTTC AATGAATACT TACTACTTTA TCATTTTCAG TCTTAATTGT ACT              233

```

## (2) INFORMATION FOR SEQ ID NO:285:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 398 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:285:

```

GCGGCGCCGC AGCAGTTCCA GGAAGGATGT TACCTTTGAC GATGACAGTG TTAATCCTGC      60
TGCTGCTCCC CACGGGTCAG GCTGCCCCAA AGGATGGAGT CACAAGGCCA GAATCTGAAG      120
TGACAGATCA GTCCTGCCCC AACCCCTTCC AGCCAGGCCA GGAGCAGCTC GGACTTCTGC      180
AGAGCTACCT AAAGGGACTA GGAAGGACAG AAGTGCAACT GGAGCATCTG AGCCGGGAGC      240
AGGTTCTCCT CTACCTCTTT GCCCTCCATG ACTATGACCA GAGTGGACAG CTGGATGGCC      300
TGGAGCTGCT GTCCATGTTG ACAGCTGCTC TGGCCCCTGG AGCTGCCAAC TCTCCTACCA      360
CCAACCCGGT GATCTTGATA GTGGACAAAG TGCTCGAG              398

```

## (2) INFORMATION FOR SEQ ID NO:286:

- (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 462 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:286:

```
GAATTCGGCC TTCATGGCCT ACACCCAGCC AATTTTGTG TATTTTGTG AGAGACGGGG      60
TTTCACCATG TTAGCCAGGA TGGTCTCTAT CTCCTGACCT CATGATTGTC CCGCCTCGGC      120
CTCCAAAAAA AGAACATTTT ATATTGAGT GCTATTTCTT TTGCGGCACC AAAACTTTAT      180
AACACACTGC CTTCTGAATT TTTTGTGTTG GTTCTGCTC AGCTCATTGT TAATCATATT      240
GTTCCCATGT ATGTCATGAG TTATTTTCTT CCTAGTCTTT TCAAAATTTT CTTGTCTTTG      300
ACTTTTAACA GTTTAATTGT AACAGTGTAT ATCTTTAAAG TTAAATTCAT GCTTGTGAAT      360
TTTTATAAGA GCCACAAAGG CTTTCCTCTG TGTTTTGTTT TTGTTTTGTG TTTTGTTTTC      420
ATTTTGTGAG CAGGCTCTCA CTGTCCCTCA GTGGCTCTCG AG                        462
```

(2) INFORMATION FOR SEQ ID NO:287:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 281 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:287:

```
TGGACAGTCT AGAAGATGCT GTGGTGCCCC GGGCTCTGTA TGAGGAGCTG CTGCGCAACT      60
ACCAGCAGCA ACAGGAAGAG ATGCGCCACC TCCAGCAGGA GCTGGAGCGG ACTCGGAGGC      120
AGCTGGTACA ACAGGCCAAG AAGCTCAAGG AGTACGGGGC ACTTGTGTCT GAAATGAAGG      180
AGCTCCGTGA CCTTAACCGG AGGCTCCAGG ACGTGCTGCT CCTGAGGCTT GGCAGCGGTC      240
CCGCCATTGA TCTGAAAAA GTAAAGTCAG AATGTCTCGA G                        281
```

(2) INFORMATION FOR SEQ ID NO:288:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 421 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:288:

```
AATGGAAGTG CTGACACAAT ACTCGTGTA CTGTGTGGAA CCGCATAATC CCAGCAATGG      60
CACATTGAAG GAATGGAGGG AATCCAATAT TTCTGCCTCT GACATAATTT GGGAGAACCT      120
AACTGTGTCA GAATGCAAAAT CATTGCATGG AGAGTATGTT GGACGGGCCT GTGGCCATGA      180
TCACCCATAT GTTCCAGATG TTCTATTTTG GTCTGTGATC CTGTTCTTTT CCACAGTTAC      240
TCTGTGAGCC ACCCTGAAGC AGTTCAAGAC TAGCAGATAT TTTCCAACCA AGGTTTCGATC      300
CATAGTGAGT GACTTTGCTG TCTTTCTTAC AATTCTGTGT ATGGTTTTAA TTGACTATGC      360
CATTGGGATC CCATCTCCAA AACTACAAGT ACCAAGTGTT TTCAAGCCCA CTAGGCTCGA      420
G                        421
```

(2) INFORMATION FOR SEQ ID NO:289:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 417 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:289:

```
AAGCCAATGG CTGGTCGTGA TCCTGAATGC CAACGCACAG AAATGATTAA GAAAGAAGAA      60
GAACGTTTGA GGGCTTCCAT ACGTAGGGAA TCTCAGCAGC GCCGAATGAG AGAGAAACAG      120
CACCAGCGGG GGCTGAGCGC CAGTTACCTG GAACCTGATC GATACGATGA GGAGGAGGAA      180
GGCGAGGAGT CCATCAGCTT GGCTGCCATT AAAAACCGAT ATAAAGGGGG CATTCGAGAG      240
GAACGAGCCA GAATCTATTC ATCAGACAGT GATGAGGGAT CAGAAGAAGA TAAAGCTCAA      300
AGATTACTCA AAGCAAAGAA ACTTACCAGT GATGAGGTAA GACCAAATTT ATTCAATTCT      360
AGGGGTTTAT CCTGTACTCA GGAGCCAACT GCTTTGAATG AAAAGCTCAC ACTCGAG      417
```

(2) INFORMATION FOR SEQ ID NO:290:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 314 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:290:

```
CAAGCATACA ATCAACTCCA AGCTCGGTAT CACCTGAGCC CAGGAAGTGG AGGCTGCAGT      60
GAGCTATGAT CAGTAAACA CAAGACAGGT TCACTGGCTC CCATCCCAAC CCGGACCAGC      120
TCCCTAGTAT AACAACTCAC ATGCATGTGG ACTATACCCT TACAGCCTTC TTCTGTGTGT      180
TTATGTGCAT ATATGTAGCC ATAGGAAAAA AAATCAAAAT CCTTTGGTGT TCTTTCTTAT      240
TTTTTCAAAT ATTTACCTG CCCATTCTC TTTCTTTCT CCTTCTAGTA CTCCCATTGC      300
ATGCAGTTCT CGAG      314
```

(2) INFORMATION FOR SEQ ID NO:291:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 361 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:291:

```
GTGTATGTGG GGGGTAAGTG TGTGTGTGTG CGTGTGCGTG TATGTGCACG TGTGTGTGT      60
GTGCGCCTGC ACACGGAGAG CCCACTCATA CGTAGCAGAA AATCAAATGG CCCCAAATCA      120
GAAACATGGC GCATGTGAGC ATGCCACTTC TTGTGTGCCT GTGACTGTTT AGAATGTACA      180
CGGCCCTGCA GCTCCGAAG GCCAGCTCTG CTGCAACCCC TCCTCTGTCC AACACAGTCC      240
TCACTGGTGT CTTTCTCTCT TCAAATCTAC AGCATTCTCT ATCTCTGCAA ACAATTTAAC      300
CCAAAACCAA GTTCTGGCTG ACAAGGCTAC ATCTTGTTC TGTGCGTGA TTAGCCTCGA      360
G      361
```

(2) INFORMATION FOR SEQ ID NO:292:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 237 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:292:

```

GCGATTGAAT TCTAGACCTG CCTCGAGTCG ATGCACCGAA AAGGGTGAAG TAGAGAAATA      60
AAGTCTCCCC GCTGAACTAC TATGAGGTCA GAAGCCTTGC TGCTATATTT CACACTGCTA      120
CACTTTGCTG GGGCTGGTTT CCCAGAAGAT TCTGAGCCAA TCAGTATTTC GCATGGCAAC      180
TATACAAAAC AGTATCCGGT GTTGTGGGC CACAAGCCAG GACGGAACAC ACTCGAG       237

```

(2) INFORMATION FOR SEQ ID NO:293:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 292 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:293:

```

GAATTCGGCC TTCATGGCCT ACTTTATTTT TTTAATTATT ATTAGTATTA TTTTGAGACT      60
GAGTCTTGCT CTATCACCCA GGCTGGAGTG CAGTGAGCTG AGACTATGCC ACCGCACTCC      120
AGCCCCGGCG ACAGAACGAG ACTCCATCTC NAAAAAAAAA AAAAAAATCT ATGTTTCATGC      180
CTTNACACCT GTTCTGTCAC ATAGCTGTGC AGTATATTCT TCTTCTAAGC AACGACCCAG      240
TGAAGATCCA AACAAAAGTT CACAAATATG TAGTTATCCA AGGCACCTCG AG       292

```

(2) INFORMATION FOR SEQ ID NO:294:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 136 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:294:

```

GAATTCGGCC TTCATGGCCT ACAATCTTTT AACTTTGGGG GTCACAGTTT TAGCCACCTT      60
TCGGGGGGTG ACTGGAGCAG TAGGAGGTGT GGGGTCATT TATGAATATA ATAAATGGA      120
GCTGACTGTA CTCGAG                                     136

```

(2) INFORMATION FOR SEQ ID NO:295:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 264 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:295:

GAATTCGGCN	TTCATGGCCT	AAAATAACAC	ACAATTAGTA	TAGAAAAATT	GCAAACACAG	60
ATAAAAGTCC	TTTCCCTGTG	AATTTCTGAA	TGCACCTTTG	AATATTCACA	TCTTACTGCC	120
AAAATGAGAT	TGTCTTGTGT	GCCGTTCTGG	AATTTGCTTT	TTCCAGCTT	ACATGTTCTA	180
GGTCCTTCCA	GATCAATAGC	TGCACTCCCT	CCTTCCTCTG	CTGGTTTCTC	AGCTCGATGG	240
GCTGTAAGTG	GCATTACTCT	CGAG				264

## (2) INFORMATION FOR SEQ ID NO:296:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 251 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:296:

GAATTCGGCC	TTCATGGCCT	ACAACCTCAT	AAATCTCATT	CTTAATTTCA	CTCTAGGACA	60
GAATTATTGT	AGCACCTGTG	TTCTGTTATT	TTAGATTCAT	TTAACTTAC	CTAGACACGG	120
GTACTGTGGT	AGTTGTAGAG	GTACAGATGT	TGAGTTCCCA	TCCTCCTGGC	TTAATGTCAC	180
TGGGGTTATT	AATACACTTC	ATAAGCATT	TAGGGACACC	TGCTGTCTGC	TCAACCCCCA	240
GCAAACTCGA	G					251

## (2) INFORMATION FOR SEQ ID NO:297:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 260 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:297:

GAATTCGGCC	TTCATGGCCT	ACATCTGGTA	AATTTTCTT	TCTGCCTGAG	GAACACCCTT	60
TAGCATTTAT	TTAGTCTGCT	GGTGACCAAT	TCTCATATTT	TGTTGTCTG	AAAAATACCT	120
TTATTTTGTT	TTAATTCTTG	AAAGATATTT	GCACTGGTGT	GATTGGATTC	ATGATTGCTT	180
ATTATTTTCT	TTTCTTTTT	TCTTTTTTGA	GACAGAGTCT	CGCTGTCGCC	CAGGCAGGAG	240
TGCAGTGGCC	CGTACTCGAG					260

## (2) INFORMATION FOR SEQ ID NO:298:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 265 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:298:

GCTCTGAATC	TATTTTCTAG	GACATTTTT	TCCCATTAG	ATTAAGCCAG	AGAGAGCCCT	60
TTCTTGCCTC	CCAAGAGTTT	TTCTTTGTGT	GACTGTTGGT	ATTCTGAACC	TCTTGGATTT	120



GATGCCTGGA ATTGTCCTAG AGACTCTCCT GATTCTGTGTC TCATTCTTTG ATTTACCCCT	180
GGGGAGCTGG GGAAGAGATA CCTTCCCATG GCATCACTTG TTAAGAGTGG ATCCCCCTTC	240
CCCCTTTCCT TCTGTCCCCC TCGAG	265

## (2) INFORMATION FOR SEQ ID NO:299:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 311 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:299:

GAATTCGGCC TTCATGGCCT ACCAAAACAA AAGAAGAAAT CATTTCACTC ATGCTTAGAA	60
AGATGTCAAG AGGATGGAGG ACTCACATTC TGTTAACTCT TCTGCCTGTA ATATATGCTT	120
TAAACACTAA AAATGATGAG CATGAATCTG CAATTCAAGC CCTCAAAGAT GCTCATGAAG	180
AAGAAATTCA ACAAATTCTT GCTGAAACAA GAGAAAAAAT ATTGCAGTAT AAAAGCAAAG	240
TAACAGAGGA GCTAGACCTT AGAAGAAAGA TTCAAGTTTT AGAATCATCA TTAGAAGATC	300
ACAATCTCGA G	311

## (2) INFORMATION FOR SEQ ID NO:300:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 255 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:300:

GCGATTGAAT TCTAGACCTG CCTCGAACTC GTGGCCTCAA GTGATCCACC TGCCTCACCC	60
TCATCACCTG CCAAGTCCTA CCCATTCTAA CCCTGATAGC TCTTAAATCA GGTCTTTCCA	120
CCTCAACCTC ATTATCACTG CTCTAGAGCT CAAGCCTTCA GTGTCCTTTC ACTTCCTGAA	180
TTTACTGTCT TAGTGCTCTT GCTCACATTG TATTCTNTGC CCAAATGCT CTTACCACTC	240
CCNTTCTTTC TCGAG	255

## (2) INFORMATION FOR SEQ ID NO:301:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 345 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:301:

GAATTCGGCC TTCATGNCCT ACTTGGATTT ATCACAGTAG CATTTGTCTT CAATCTGTGT	60
GTTAACTAGA AATCAAGGAA AGACATGAGG AGATTTGTCT ACTGCAAGGT GGTCTTAGCC	120
ACTTCGCTGA TGTGGGTTCT TGTTGATGTC TTCTTACTGC TGTAATTGTAAC	180
AAATGTGATG ACAAGAAGGA GAGATCTCTG CTGCCTGCAT TGAGGGAGAT CCGCACGCAG	240
CTGGTGGAGC AGTTCAAATG TCTGGAGCAG CAATCAGAGT CGCGACTGCA GCTGCTTCAA	300
GACCTCCAGG AGTTTTTCCG CCGGAAAGCT GAGATTGAGC TCGAG	345

## (2) INFORMATION FOR SEQ ID NO:302:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 300 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:302:

```

GAATTCGGCC TTCATGGCCT AATCCTCCAG ATTATTATGG ATATGAAGAT TATTATGATT      60
ATTATGGGTA TGATTACCAT AACTATCGTG GTGGATATGA AGATCCATAC TATGGTTATG      120
AAGATTTTCA AGTTGGAGCT AGAGGAAGGG GTGGTAGAGG AGCAAGGGGT GCTGCTCCAT      180
CCAGAGGTCG TGGGGCTGCT CCTCCCCGCG GTAGAGCCGG TTATTACAG AGAGGAGGTC      240
CTGGATCAGC AAGAGGCGTT CGAGGTGCGA GAGGAGGTGC CCAACAACAA TGATCTCGAG      300

```

## (2) INFORMATION FOR SEQ ID NO:303:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 258 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:303:

```

GAATTCGGCC TTCATGGCCT AAAAAAAGA AGTTTATTTA AAGAACTCT ATAAGAGCAG      60
CTTGGATTTT ATATCTTTAG ATCCAGAGTT TTTACTTTTC TGGAATTAAA TATAATTGTT      120
TGGAATTTAC TCTTTATTGT TGAATTTTAA AGCGTGACTA AAGTAGTGCT TCTTAAGATA      180
ATTGTCATGT GTTTTGTTT TGTGTTGTTT TGTTTTTTGG TGCTGAGTGT TGCTCTGTCG      240
CTCAGACTGG AGCTCGAG

```

## (2) INFORMATION FOR SEQ ID NO:304:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 262 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:304:

```

GAATTCGGCC TTCATGGCCT ACAATTCCGA TAAAGTTTAA GGTCAGCTGA TGAAGAACAC      60
TCAAACCAAA GTCGCCCATG GGAGGAGCGC CCTACCTCAC AGGAATAGGC CTGCATTATT      120
AGTATACCTT CTTTCATCAG TTATTGTTAT TCTTATGGAA ACAACCCATG GGAAATGTAG      180
CCTTGGCATG ACTGTATCAA TGGATTGAGA GAGCAGTAGC GGGGACCCCC CCAGTCAATT      240
ACGTTCCACA GCAAGTCTCG AG

```

## (2) INFORMATION FOR SEQ ID NO:305:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 298 base pairs
- (B) TYPE: nucleic acid

(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:305:

```
GAATTCGGCC TTTCATGGCC TAAATCTCAT AAATAGAAAG NAAAATAATC TAGAAATTTT      60
TCAAAGCTAG TACTCTTTCT CCTTATAAAT GTACACAATT TTAATCTTTT TACAAATTTA      120
TTTAACTGTA CCTACTGTAC TTATTGTAGA TTCAATGACG CAGTTAAGTC ATCACCCAAG      180
GATTTATGAA TTTGAGATTA CTGACCTGTT TTCTTCATAT TGCATTCACA TCAATATTTG      240
TGAATTGTGT GTTCAGCTTT TCATTCAAAC AAAAAATATT CCCCCAAGAA AACTCGAG      298
```

(2) INFORMATION FOR SEQ ID NO:306:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 263 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:306:

```
GCGATTGAGT TCTCCCTGCT GGTTCCTTTTG AATCACACCA AATGAATGGC TTGCTACTGT      60
TCCCTCACAC CTCATATTG TCCATGGTTT TCCCCACCTC CTTAGCTATA CAGCTGCTGT      120
TCCTCCTGCC TAAAATGTCT GAACATTCCC TCAGTGTTCA GCTCAGCCCA CATCTTACAT      180
CTTCCCTAAG GATGTTTTTC TGCTGCTATC ATTCATTTTC TTCCTATGAG TTCCTCTGTT      240
ATATTGCGCC ACCAGAACTC GAG                                         263
```

(2) INFORMATION FOR SEQ ID NO:307:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 267 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:307:

```
GAATTCGGCC TTTCATGGCCT AGCCCCGACT AGCTTTGCCC TAACTCCTTC ATCAAAAGAC      60
CCCCCGCCAG CTTCCACAC CTCATACGCA GCCACATCTG CCCTATTCTC CATGCTTTCC      120
AGCTTGCCCTG CCCTTCCTCA TCTCTCCCTG CCTGTGCAGA CCTCCACCCT TCTTTCCTCC      180
ACCCCTCCAT CCCCCAATGC TTGTAGACCT TCCATTCAAT CCGTCTCATC GTGCGTGGTC      240
TCTGATCGTC CATCACCTGA CCTCGAG                                         267
```

(2) INFORMATION FOR SEQ ID NO:308:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 261 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:308:

```

GAATTCGGCC TTCATGGCCT AGCCAAAATC ACAAGAAAAA TAACTTTGAC TTTGAAAACA      60
AATAAGTTAG AAATGCAGTG TTTGCACTTC GTGGTTTATG TTTGCTTTGG TGGCCTCTCA      120
TTCCCACTTA GCCTCAGTCT CCAGGGCCTG GGCTCCACCA AGGAAGACTC CATCTGCTCT      180
CTCTATTTGC AACTTGGGAA CTTTTTCC CAAGGTACAG GATATGATTC AGGGTTTATG      240
GATGACCTCC CACCCCTCGA G                                     261

```

## (2) INFORMATION FOR SEQ ID NO:309:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 249 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:309:

```

GAATTCGGCT TCATGGCCTA CCTATTCCCA AACTTTAAAT GTTGTCTACC AAATACTGAC      60
AATTATGAAA ATTCTACCAG TAGAACACAC CTCCTTTTG AGCTCCAGAG CACATGCTTG      120
ACATCTCATA TTAGAAAGAA TCTTGATTTT CCCTCCAGTC TAGTCTTTCA TGTTTTGTTT      180
TTCTTTGTGA GAGTCTCCCT CAGCCTGCAA TGGCGTGATC TCGGCTCACT TCAACCTCCC      240
GTGCTCGAG                                     249

```

## (2) INFORMATION FOR SEQ ID NO:310:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 180 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:310:

```

GAATTTGTTT NAAAAAAAAA AAAAAAAAAA AGGCGNGGGG GGAAAAAAAA AAAAAAGAAC      60
TCCTGGAGAG GGAAATAGCA AATGTGTCTT GCCTTTTGTT GCTCTCTCTC TCTTTTTTTT      120
TCTCTCGCTC TCTTCTTTC TCTTCTCTC TCTGTTTTTA AGTCAAGCAT TGGTCTCGAG      180

```

## (2) INFORMATION FOR SEQ ID NO:311:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 742 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:311:

```

NNNNNNNNNN NNNNNNNNNN NNNNNNNANN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN      60
NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN      120
NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNANN NNNNNNNNNN NNNNNNNNNN      180
NNNNNNNNNN NNNNNNNNNN CNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN      240

```

```

NNNNNNNNNA NNNNNNNNAN NNNNNNANNN NNNNNNANAN GNANNNNNNN NNNNNNNNNN 300
NNANANANNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNC CCCCTTTGTC 360
ATNGTTNTCG TTCCCNNTCT TCCTTGTTTC TTTTTCGGCA CAATATTTCAGNTATACCA 420
AGCATACAAT CAACTCCAAG NTCGGAATTT TAATTACTTC ATGGCCTACT TGATGCAGGC 480
TGGAATGTTA TCCCTGGGGT GTGCTTGGAC CCCACCTGCT TTCTTTCTCT CCTGCCCTC 540
CCCTACTCTC ACTGTAATTT ATGACCCCTG CCCGCCCTGCG TGTGTGTGT ATGTCCTGTG 600
CCTTTTCTCA CTATTGTTTG GGTGTGGGAG GGGGTGGTTT TTCACTGAAA AGGGGGGTAC 660
ACCTATAGCT TTCTTGATGT TCAATCAATC AGTCACTGTG TCCCAGACAT ATTCAATAAA 720
CACAGATTGG TACCATCTCG AG 742

```

## (2) INFORMATION FOR SEQ ID NO:312:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 270 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:312:

```

GCGATTGAAT TCTAGACCCG CCCCAGGAGC CTCAGCTGC CTAACCACTG CCATTCTTTC 60
ACAACACGAT TTTCTACAAA TCTACAGCAC AACCGAGTTT GTAACCCGTG GGTTAGTATG 120
AGGACCGGGT TCGTGACTC TCTGTATCTC CTCTTAAGCT TCGTCCAGGG TTCTTTATTT 180
TTGTCTGCTG CCAATGTCGT CTCGCATGCC TGCACCCTCG CATGCACGCT GCCCGCATGC 240
CACGTGCCAC GCTGTAGCCA CATCTCGAG 270

```

## (2) INFORMATION FOR SEQ ID NO:313:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 262 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:313:

```

GAATTCGGCC TTCATGGCCT AGTTGATGTC CTCTCATATT TTGTTGTTTA AATACGCAGT 60
GTGGTGGTTG TTATTAGGA CTGCCTCTGC TCTGACAGAT GTGTCTACTC TACAGAGAGA 120
GAGAGAGACT GTGTCTATTG TCCCACCAGG CTGTCCAGAT CCAAACCTCA ATGACCTTTC 180
TGCACTCTGC CTGGCTATTG GTTACAGTTT ACATTCTACC TTCTCCCAAG GTATTGAGGG 240
AGGCTTGCAAT GCAATTCTCG AG 262

```

## (2) INFORMATION FOR SEQ ID NO:314:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 311 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:314:

```

GAATTCTAGA CCTGCCTCTC CTGACACGGG CCACCAAACC CCTTACCTGG TTCCTTGCTG 60

```

```

TAAAACTTCA CCAAATGAAG CCAGAGTTGA TCATGACCCT CTCGTGCTCG AATCCCTTCT 120
GGGCTCCCCT CTGCCCCCTG CAAAGCCCAC ATGATACCAC AGAGAAGACC TGCCCTCTGC 180
AGGCCAGCTG CTTCAGCCTC TTCCCTCACA CACATCGTCC CGCACACGGC AGCCACCATG 240
GACTCAACAT CCCCACACA CGGTGCTGCC CTCTGCATGC ACCGACCCCC TGCCCTCTCC 300
ACCAGCTCGA G 311

```

## (2) INFORMATION FOR SEQ ID NO:315:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 232 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:315:

```

GAATTCGGCC TTCATGGCCT ACCTAGGTGC TTTTAAAAAT ATTCAGACAA ATATCTATCT 60
TACATTGATT AAACCCGTGT AAATTCATTT GCAGTATCTA CATCGAATGT CAAAAAAGTA 120
TACTTATTTT TGTTCCATAC TTATGTACAA TTTTTCCTT CTCAGGCTT TTTTATTTAC 180
CTTTTGTAAA AAGCACTTAC TCTCCCTTC CCTATCACCC CATCCCCTCG AG 232

```

## (2) INFORMATION FOR SEQ ID NO:316:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 205 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:316:

```

GAATTCGGCC TTCATGGCCT ACAGTTGTTT ATACTTCCTT TACAAATATA AAGATAGCTG 60
TTTAGGATAT TTTGTTACAT TTTTGTAAT TTTTGAAATG CTAGTAATGT GTTTTCACCA 120
GCAAGTATTT GTTGCAAACT TAATGTCATT TTCCTTAAGA TGTTACAGC TATGTAACCT 180
GTATTATTCT GGACGGACAC TCGAG 205

```

## (2) INFORMATION FOR SEQ ID NO:317:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 299 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:317:

```

GAATTCGGCC TTCATGGCCT AGGGCTTGTC TTTTTCATTG TTGAGTTGCA GGAGTTCTTT 60
ACATATTCTG GATACTAGAC CCTCATCAGA TATGGTTTTA AAATACTTTC TCTATTCTT 120
TTCACTTTCA AGTATCCCTT TGATGCACAC ACCCAAAAAA GCAAATAGTG TCCAATTGCA 180
TTCTTTGATG AAGAAGAATA CAAGCAGTAA GTCAATTACA GCCTATTTTT TTCTTTTCTT 240
TCTTTCTCTT TCTCTCTCTC TCTTTCTTTC TTTGAGGCAG GTAGGCCATG AAGGCCGAA 299

```

## (2) INFORMATION FOR SEQ ID NO:318:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 95 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:318:

GAATTCTAGA CCTGCCTCGA GCTCCAGCTG CCAACACCCT TGGACACAAT ATTCCAGTCT	60
CCACTGCCCA TCTCATGTGG TTCAGGTTC TCGAG	95

(2) INFORMATION FOR SEQ ID NO:319:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 109 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:319:

GATGCTTGGC TCACTCCCCG CTACTGGCCC CCAGACTTTT CCACCCAGG AAATGTCTCC	60
CCTGCCTGCA GCTTCAGCGA AAGCCCAGGA GGCAGGCCAA TCACTTGAG	109

(2) INFORMATION FOR SEQ ID NO:320:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 253 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:320:

GAATTCGGCC TTCATGGCCT ACACATTTCT GTACCTGGAA AAAAAATGTA TCTTATTTTT	60
GATAATGGCT CTTAAATCTT TAAACACACA CACAAAATCG TTCTTTACTT TCATTTTGAT	120
TCTTTTAAAT CTGTCTAGTT GTAAGTCTAA TATGATGCAT TTAAAGATGG AGTCCCTCCC	180
TCCTACTTCC CTCACTCCCT TTCTCCTTTG CTTATTTTTC CTACCTTCCC TTCCTCTTGT	240
CTCCCCACTC GAG	253

(2) INFORMATION FOR SEQ ID NO:321:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 334 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:321:

GAATTCGGCC TTCATGGCCT AGGTTGTAAG TGATTTTATT TTTTCTTTTC TATTTTCCAG	60
TGTTTCTGTA ATGCTTTCAT ATTTCTTTTG GTAGTTAGAA AATAAAGGCT AATTTTAA	120
AAGAATATCA TAGTCTAAAA AATTAAAGGA TGCATAGAGT TCCCTCTTGA CTATGTGACA	180
TCTAACTGA ATGAACTGTC TCGTGGCAC AGTGAACAG CGCAGTCTCA GGATTCTGAC	240
AGATTTTGG ATCCAGCTC TACCACTAAC CTTGGGCAGG ATTTTAGTCC CTCTGAGACC	300
TGCTTTCTCG ATTGAATTCT AGACCTGCCT CGAG	334

## (2) INFORMATION FOR SEQ ID NO:322:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 226 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:322:

GAATTCGGCC TTCACCTAAA TACTCCTCCT TTTGTATCAT TCAGCCTTTT GTTTTAGTTT	60
GGTAAGTTT AAGAAATTC AGCAGCAAAG TTGTATTCA GTGGGCACGA TGGACTCCAA	120
ATGCCTCAAG TTATGTATAC CTGTGGAGGT CACGTACTTC CAAATTGTTC TCTTCCTCAT	180
CTTCTCCCTT TACCTGCACG CCCAGGTGCG CCAGCCGGGC CTCGAG	226

## (2) INFORMATION FOR SEQ ID NO:323:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 164 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:323:

GAATTAAAT AAACAAAGG CAGCCAAGGA TGAAAGGATT TAGTTCTAAG ATGTTTCACA	60
GTTGTGATTT GTTTATTTTA ATCCTTAGTA GTAAATTAGT ACTAGAAGGA TCAGGTATAT	120
CTTCCTTAAT TCTTCCAGG GGAGAGAAAG TCCATTCT CGAG	164

## (2) INFORMATION FOR SEQ ID NO:324:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 494 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:324.

GAATTCGGCC TTCATGGCCT AAGCCTATGT TGATCTTGAA CTCCTGGGCT CAANCCN'TCC	60
TCCTGTCTCG GCCTCCCAA TTGCTGGAAT TATAAGCACA TTACACAGTG CCCAGTCTAC	120
CTACATTTTG ACAGACATAT AATATTCCAT GGCATGGTTA CATTATTCAG TTAAGAATGT	180
TCCCGGTTT CTCTAAGATA ATGCTGCCA TCTGTGCTC ACTCTGGACA TGTAGAGTAC	240
CTGCAAAGAC TTGGACTGCT TGAGCAGAGG GCCTGCTTTT GTTTT'TTGTT CTTCCTGCCT	300
GTTGTAACCT GATGCTGCCA AATGATCTC TTAAATGATT GTACCACCTT CCCTGCCACC	360
ACCAGATTTT AAGGATTCTC TGTACCTCCC AACACATGAT GACATCATAC ATGAAAAGTT	420



TTGCCTGCCT GATGGAATAA TTGAGTCAAG AAATAGGATG CTAATGGCAT CTTGCTTAC 480  
CCGGTCTCCT CGAG 494

(2) INFORMATION FOR SEQ ID NO:325:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 295 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:325:

GAATTCGGCC TTCATGGCCT AGTTGGGTGT TGAGCTTGAA CGCTTTCTTA ATTGGTGGCT 60  
 GCTTTTAGGC CTAATATGGG TGTTAAATTT TTTACTCTCT CTACAAGGTT TTTTCCTAGT 120  
 GTCCAAAGAG CTGTTCTCTT TTGGACTAAC AGTTGTCCTG ATGAATAATT TCATTTTCCT 180  
 CAAGTTTATG AACTCGGAA CGTCAAGAAC TGGAGGTTTG TGCAATTGA GACCGGTCGG 240  
 CACTGTGCAG AGATCAGAGT ACTAAGAGAC AGAGATTAAT ATGGCTATCC TCGAG 295

(2) INFORMATION FOR SEQ ID NO:326:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 418 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:326:

GAATTCGGCC TTCATGGCCT ACAAGGATAG AATTCATTCC ACCTATATGT ACTTAGCAGG 60  
 GAGTATTGGT TTAACAGCTT TGTCTGCCAT AGCAATCAGC AGAACGCCTG TTCTCATGAA 120  
 CTTTCATGATG AGAGGCTCTT GGGTGACAAT TGGTGTGACC TTGTCAGCCA TGGTTGGAGC 180  
 TGGAATGCTG GTACGATCAA TACCATATGA CCAGAGCCCA GGCCCAAAGC ATCTTGCTTG 240  
 GTTGCTACAT TCTGGTGTGA TGGGTGCAGT GGTGGCTCCT CTGACAATAT TAGGGGGTCC 300  
 TCTTCTCATC AGAGCTGCAT GGTACACAGC TGGCATTGTG GGAGGCCTCT CCACTGTGGC 360  
 CATGTGTGCG CCCAGTGAAT AGTTTCTGAA CATGGGTGCA CCCCAGGGAG TGCTCGAG 418

(2) INFORMATION FOR SEQ ID NO:327:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 588 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:327:

GAATTCGGCC TTCATGGCCT ACAGACATCT AATCGGAATC TTGCTCTTGT TGCCAGGCT 60  
 GGAGTGTAAT GGCACAATCT CGGCTTACTG CAACCTCTGC CTCCTGGATT CAAGTGATTC 120  
 TCCTGCCTCA GCCTCCAAG TANTGCGGAT TACAGCCCTG AAAACCACTC GCTTGCAGAG 180  
 CGCTGGATCA GCAATGCCTA CTAGTTCTTC ATTCAAACAC CGGATTAAAG AGCAGGAAGA 240  
 CTACATCCGA GATTGACTG CTCATCGAGA AGAGATAGCC AGGATCAGCC AAGATCTTGC 300  
 TCTCATTGCT CGGGAGATCA ACGATGTAGC AGGAGAGATA GATTCACTGA CTTCATCAGG 360

CACTGCCCCCT AGTACCACAG TAAGCACTGC TGCCACCACC CCTGGCTCTG CCATAGACAC	420
TAGAGAAGAG TTGGTTGATC GTGTTTTTGA TGAAAGCTCA ACTTCCAAAA GATTCCTCCA	480
TTAGTTTCATT CCAAAACACC AGAAGGAAAC AACGGTCGAT CTGGTGATCC AAGACCTCAA	540
GCAGCAGAGC CTCCCGATCA CTTACAATT ACAATGCGGG AACTCGAG	588

## (2) INFORMATION FOR SEQ ID NO:328:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 385 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:328:

GAATTCGGCC TTCATGGCCT ACGACTGGGG GAAATGTCTA TTCTCCTGTG TATCTCTGGG	60
CTTTTCTTGT TTTTGGCTGC CTCCTGCTCA GTTCTCTCTT TTAGGTATTT AGTAAAGCGT	120
TCATGTAATG TCATTCTGA GGACCCAAAG TGATGCTCTT TAACATGGTG AACATGGTC	180
ACTATATGTT GGGCAAACAG TTCTGAGGGG CTACGCTGAG ACTGAGCTGA TTGTATGTGC	240
TGGAAAATGG AACGAACTC CTGTTCCTTT TTGTTGCTAT GGACTIONATC TCGGCAAAGC	300
TTGCGTTCCT GAGCCAATAA GCCACTGGGT CGTGCGAGGT CCTCATCAA AGAGTCCATC	360
CGGACATTGA CCTGTGCCTC TCGAG	385

## (2) INFORMATION FOR SEQ ID NO:329:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 482 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:329:

GAATTCGGCC TTCATGGCCT AGCAGTTCAC CACTGCAAAA CCACGGGGCT GCGTGGAGGT	60
ATTCATGGGA CACCGAGTGG TATCACTAGC AGCGGACTCT GCATGCTTAC TTAGAGCATA	120
AAAGGATAGC ACCCTTGGCC ATTGCCTGAC ATGAACTCAG TTTGGAAATT GCAGAGGTGT	180
GGAGAGCCAT GGATGGGTTT TATAATTTAT TCTAATGTAA TCTCTGTGCT AAAGGCTGTT	240
TGAAAAAAT AATGAAGTTG ATGTTGCTTA AGTTATATGC AAATGTAAAC TGGTCTTCCT	300
TCAAGATGTT TGAATGGAA TGAATGCCCT TCCCCTGGGT ACCTCCCAAT ACCTACCCTC	360
AAAAGAGCTC CAGTAAGGCT TCCTTATCTT TCCTTGCCCT GCTTCCTACA CTGCTGCTGC	420
AGGTGTCTCT GGGTGATTGT GGGGGAAACC ACTGTGGTTA AGCACCAACA CCAAGACTCG	480
AG	482

## (2) INFORMATION FOR SEQ ID NO:330:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 532 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:330:

```

GAATTCGGCC TTCATGGCCT AAGGCCTTGG TGCCCTGTGG GTGGA CTCTG GGGAGGCCAG      60
GGGCCCCAAGG CCACCTTCTA GGGCCTGAGG AGCCCTCTGA GACCTGCACA CCCACCCCAG      120
GGAGCGCCCC TCCCTCCACC TCTGTGCCCC CCCAGTGA CTCTGAACCTC TGTCTGTTTT      180
GCAGATTCAT CCGGAAGGGC CGCCAGCCAG TGGATTTCCT GGGCCCTCAG CCCTCTGGAG      240
TGTACGAGTT TTGGAGAAAC CTCTTCCTCT GTATATGCTT TGACTTTCC TGGACTGATG      300
TAAAAATACT CTTTTCTTTG ACCTGTTTAT TTTTAAGACA CGACGTGATT GTGTCAGCTT      360
ATATTTTATT GCTGAAGTAA ATTTTCAAAT GTTTTATTAG TTTTTTTGGA TCTTTGTCTG      420
CTCATTTTGG AGTTTTTGTA ATTTTGATAG GTGTTCTTTT ATGCTTTGTA TTGTTTTCTT      480
AATGACTTTT ACCTTAGTTT TTAACAAACC CATAGTACAG TGTACCCTCG AG              532

```

## (2) INFORMATION FOR SEQ ID NO:331:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 375 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:331:

```

GAATTCGGCC TTCATGGCCT ACATTTTGG AAAAAAAAAA ATCTACTTTG TGTATGTGTG      60
GGGTGTGGGG TGTGAGAGAT ACATTCCTTT TTNGTGTCTA AATCTCACAG TCCACATATG      120
ACTTTCCCCA CTGAGAAATT CTCTCTCATC TGTGTGGCTC CCTGCATTCT ATAAAAATAT      180
AAATAAAATA AATTTTAAAA AGTATAAAGC CGGTGCCATG AGACCCTTGG GTTGGGCAAA      240
GCCTGTGAAG TTGAACCGG TTAACGCACG AATACAAGGG AGTGATTATT ACAAGGCCAT      300
CCCGCTTAGC ATCGGGGAAT CATTGGGGA GAGAGATTCA ATTCATAAA GATGATTTTC      360
AAGGGCTGTC TCGAG                                     375

```

## (2) INFORMATION FOR SEQ ID NO:332:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 344 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:332:

```

GAATTCGGCC TTCATGGCCT ACACGCGGTC AACTCTGCAG GGCTGATGAT AAACATGCCT      60
CTTCTCCTAT TGTCTTCTC CTCTCTAAAG CAAGGTCATT TCTGTGCTCG TCAGGCAGTG      120
GCAGGGGTTG GGAGGAGGAG AGAGGGAAAC ACTGTGGTCA GGCTCTGGGG AGAGTTGACT      180
ACAGTGTAGC TCTTGGATTA TTTATGAATA TTGCCCTCAG ATTTATTTTC ACTCTGCTCC      240
TTCCATT CAT ATTCCAGAG ACAACCAAGA GCCGACTGTA GAAAAAGACT TCCAGACACC      300
TAGAATATAT ATCAATAGAC ACTGTTTAAA AGGGGAGACT CGAG                                     344

```

## (2) INFORMATION FOR SEQ ID NO:333:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 422 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:333:

```

TGGCCTAAAG GGGGTGGGTA CTCCGGTGGG GTAAGGTCAG AAGGTCCCTG TGCAGGGAGG      60
GACTGGTCCC TTGAGAAGGA ACAGAGGGCA AATCCTGAAG AGTCCTGGAG GCCCAATGTA      120
GACAGCAGAA GCTGGGAGCT GACCTAGGAG TGATCGGGGG CCTGATCCAG ACAGGACAGA      180
CACAGGCTGA CACCGGAGAG TCCCAGGTGC CAACATGAAC AGTTAAGGCA GGGGCTGACC      240
CCAAAGAAAT CAGGGGCCCCG CAGCTGACCC CGGAGGGTCC CAGGTGCCGA CCTAGACAGC      300
AAAGGCAGGG CTGACCCAG AGGGTCCCGA GCCGACCCAG ACGACACAGG CAGGGCTGAT      360
CCCAGAGGGC CCCGCCCCGA CCCGACAGG CAGTGAAGGC ACAGGCAGGG CTGACACTCG      420
AG                                                                                   422

```

## (2) INFORMATION FOR SEQ ID NO:334:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 329 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:334:

```

GGGAACGAAA GATGGCGGCG GAAACGCTGC TGTCCAGTTT GTTAGGACTG CTGCTTCTGG      60
GACTCCTGTT ACCCGCAAGT CTGACCGGCG GTGTCGGGAG CCTGAACCTG GAGGAGCTGA      120
GTGAGATGCG TTATGGGATC GAGATCCTGC CGTTGCCTGT CATGGGAGGG CAGAGCCAAT      180
CTTCGACGCT GGTGATTGTC TCCTCTAAGT ACAAACAGCG CTATGAGTGT CGCCTGCCAG      240
CTGGAGCTAT TCACTTCCAG CGTGAAAGGG AGGAGGAAAC ACCTGCTTAC CAAGGGCCTG      300
GGATCCCTGA GTTGTGAGC CACCTCGAG                                                                                   329

```

## (2) INFORMATION FOR SEQ ID NO:335:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 377 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:335:

```

GAATTCGGCC TTCATGGCCT AAAACAGATA ACGCTATAGA GAAAACACTG TTTACTGAAC      60
AGTGCTTTGA AACCACGAGG GTGATCAGAG CCCCATTTTCG CCTTCTAGAG ATAAACCTGT      120
CTCCCTTCCT GCAGAGCTAG CTCCTCCTAT TGCTTCTGGT TGTCGTTTGT CTTAGTCTG      180
CTTCCTGCCA GTGCAGCAGC TCCTGCTAGA TCTTGACATC CTAGTGGCCA GATCCCAGGG      240
GCGGTGCTGG TCCTATCCGA GCTCTCTGCC TCATCTCCCA TTCCTTTTTT CCACACTCAG      300
TGTGTATTCT CTTGGATTTC CATACCCTGT TCCTCCTACC ATCCACCTCT CTACCTCATC      360
TCCCGACCTG CTCGAG                                                                                   377

```

## (2) INFORMATION FOR SEQ ID NO:336:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 356 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:336:

```

GAATTCGGCC TTCATGGCCT AGCAGGTCAG GAGCCCCGGG AAGGCCCAGA GGTACTCCAA      60
AGGGGGCCCG CTGGTATCTG AAGGCCCTT GCAGTTAGTG TGTGTGTGAG CTGTGGGCAT      120
GAACATGCCA CAGGCAGACA CTGTTTAGCC AGGGTTTAA GAAACACGGA GGGTCCTGTG      180
GATCTGGAGT TCATTTGTCA GGACAGGGAT GGGGACCCCT CTGAAGTATT CACTGTGGGC      240
TGAGGGGTGC TGGCCACACA ACCTCTGTGG GAGGCATCTC TTGCAGTGAA GCTGTTGGTC      300
CTCAGTTCAG TGCCCACTGA GGGTAACCAG GCCCCAGCTC TGCACCCCA CTCGAG      356

```

## (2) INFORMATION FOR SEQ ID NO:337:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 392 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:337:

```

GAATTCTAGA CCTGCCGAG CACAATCCCG TGGACAGAGC TTAATCCATC TAACTCGTTT      60
TCAAGTGCAT GATTTTCACT TTCACTTTTC CTTTTTCCTT ATTATGTTGC TTAAGTGTGA      120
CAGTGGCAAC TGAAATGCAT TTCAGAAATA GGAGGTTTCG TCCAGCACCC TCTGCAGCCT      180
TGGTGCCTGT AGCTCTGGAC TTCCCTGGGC CTTTCCTGT GGGAGGGCCC TGAGACCAC      240
ATCAGGGTGG GGTGGGGGTC ACTTGGCAA AAGGGCCGAG GTCTGGTGAT GTGGTTCCCA      300
GGATCTGGAA CCTCTCCAC CCCTCCTGCA GTTGGACTGA ATTCTCCCT TTCATCCGAA      360
GAAACCCACT TGCTGTTTCC AGCCAACTCG AG      392

```

## (2) INFORMATION FOR SEQ ID NO:338:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 266 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:338:

```

GCAAGATGGC GACCGAGACG GTGGAGCTCC ATAAGCTAAA GCTTGCCGAA CTAAAGCAAG      60
AATGTCTTGC TCGTGGTTTG GAGACCAAGG GAATAAGCA AGATCTTATC CACAGACTCC      120
AGGCATATCT TGAAGAACAT GCTGAAGAGG AGGCAAATGA AGAAGATGTA CTGGGAGATG      180
AAACAGAGGA AGAAGAAACA AAGCCCATTG AGTCCTCTGT CAAAGAGGAA GAACCCCTG      240
AAAAAAGTGT TGATGTGGCT CTCGAG      266

```

## (2) INFORMATION FOR SEQ ID NO:339:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 288 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:339:

```

GAATTCGGCC TTCATGGCCT AAACAATGAA TAAAGCCAAG CCAGTTCCTG CCCCCGTGGA      60

```

GCTTGTAGTC	AAGACATTGA	ACAAGTGATC	AGAAAGATGT	TGACTGCTGC	AGCAGAGGGT	120
TGCAAGCTGC	TCATGAGTAT	ATAACAAGTA	GCCCTAACCA	AAGCATTCTC	TCCCTTGTT	180
TAATGTCCAC	CCATTGAGGT	GACTGCTAAA	TACTAATCCA	TGACTCTATC	CCTTGGCATT	240
CAAACCTACA	CATCCACTTA	CCTGCCTCTC	CAACCTCCCT	GCCTCGAG		288

## (2) INFORMATION FOR SEQ ID NO:340:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 313 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:340:

GAATTCGGCC	TTCATGGCCT	AGTCTCTGCC	ATGTTCTAAA	CTGAAAACCT	CCTAGTCAAC	60
TTCACACTTT	ATTCCCTGAT	CCTCAATTGG	TTCCCATGTC	CCGTTAGTGT	TTCTTGTAAG	120
CCTCTGCCAC	CACCGCAGAT	CGAACTCTAA	TCACATCTCA	CCTGAATTAT	GGAAAAGTCA	180
CCTCAATTCT	CTCACCCATC	CCAGCCTCCA	CTATGGATTA	ATATGCCTAA	AGCAGAGCTG	240
ACCACAACGG	TGAGAAGAAT	CTGAGAGGGA	AGCAGCAGCA	AACACAAGAG	TCACTGGACA	300
TGCATGCCTC	GAG					313

## (2) INFORMATION FOR SEQ ID NO:341:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 284 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:341:

GAATTCGGCC	TTCATGGCCT	AAGAAAAAAG	GATAGACAAA	TAGTATTTTT	GTGATTTTAC	60
AGTAGCTTAA	AACTATAGGA	TTTTTTTCC	CCATTACTTT	GCAACAACCTG	ATACTTTTGA	120
CCAGTTCTCT	TTCTTAAGCA	TTTCTCTCCT	TGAGCTATTA	CCCAAATTGT	CCTAGTTCTT	180
CTCTGCTTGT	CCCTCAGCTA	TACACAGTCA	CTGAGGCTCT	GTGCTTGGCT	TCTGTTCTCT	240
TCTCCTCATA	GGGATTCTCT	ATGTTGGAGT	TCATCAAGCT	CGAG		284

## (2) INFORMATION FOR SEQ ID NO:342:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 315 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:342:

GAATTCGGCC	TTCATGGCCT	ACCACGATAG	ACCAGCTGTA	GCTCATTCCA	GCCTGTACCT	60
TGGATGAGGG	GTAGCCTCCC	ACTGCATCCC	ATCCTGAATA	TCCTTTGCAA	CTCCCCAAGA	120
GTGCTTATTT	AAGTGTTAAT	ACTTTTAAGA	GAACTGCGAC	GATTAATTGT	GGATCTCCCC	180
CTGCCCATTG	CCTGCTTGAG	GGGCACCACT	ACTCCAGCCC	AGAAGGAAAG	GGGGGCAGCT	240
CAGTGCCCCC	AAGAGGGAGC	TGATATCATG	AGGATAACAT	TGGCGGGAGG	GGAGTTAACT	300

GGCAGGGCAC TCGAG

315

## (2) INFORMATION FOR SEQ ID NO:343:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 286 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:343:

GAATTCGGCC	TTCATGGCCT	AAAGATGTTA	GATATTACAA	TTTGAAGTAA	GAACAGAAGG	60
CGATCAAGGC	CAAGTATCCG	CCAGTCAATA	GGAAGTACGA	GTGTGAGAGA	TGACTTACAG	120
TCTCTTCTGT	TTCACITTTT	GGATGAATGG	CTTTATAAGT	TCAGTGTCTA	TGAATTCCTC	180
ATACCCCGGG	TGGGGAGAAG	AATTTTCATT	GTCCAAGCAC	CCTCAGGGAA	CAGAAGTCAA	240
AGCAATAACA	TATTCAGCAA	TGCAGGTCTA	TAATGAAGAG	AACCCG		286

## (2) INFORMATION FOR SEQ ID NO:344:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 545 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:344:

GAATTCGGCC	TTCATGGCCT	ACCTCTGTGA	AAATTTAATT	TTTTATATCC	TGATTAATAT	60
ATTGTGACTT	TAGGCCCAT	TTTCATGTGC	TTCACITTTGA	TAGAGTTAAT	CCATAAAATT	120
GGTCTTTACT	TAGCTTATC	AAATGAAGTA	TTATTTTGTG	GACTGGAGGC	CAAAAAGTCA	180
ATGTGAGCTT	CTCACAGGTT	TTTAAAGCTC	CACTAAAAAT	AATTATCCAC	TTGTCTTTAC	240
TTTTGTGAC	CAGAATAGTT	GGTAACTCTG	CCAGAGCCTG	TACTTACCTG	CCAAAAACAA	300
TTAAATCTGG	TTAATGCCTG	AAACCAAATC	TCTCAGTCTC	AAGTGTTATA	CTATCCAAGT	360
TTTAAATGGA	AAGGTAAACT	GTGGAGTAAT	GAAATTTTGG	TTTTACTGTA	CCTTTTGCTA	420
TCAAGATAAT	ATTCATGTTT	GAAATCTTGT	CTTTATTGGG	AATTTAGTTA	CTGTCTGCTT	480
TTAACCTTTG	CTTTCCTAAA	GAAAGTTTGA	GATCCAGAGA	GTTCAAGGGA	TCGGGGAGTC	540
TCGAG						545

## (2) INFORMATION FOR SEQ ID NO:345:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 301 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:345:

GAATTCGGCC	TTCATGGCCT	ACAATAAGTG	TGTTATACTT	GCTTTGGTGA	TTGCAATCAG	60
CATGGGATT	GGCCATTTCT	ATGGCACAAT	TCAGATTTCAG	AAGCGTCAAC	AGTTAGTCAG	120
AAAGATACAT	GAAGATGAAT	TGAATGATAT	GAAGGATTAT	CTTTCCCACT	GTCAACAGGA	180
ACAAGAATCT	TTTATAGATT	ATAAGTCATT	GAAAGAAAAT	CTTGCAAGGT	GTGGACACT	240

TACTGAAGCA GAGAAGATGT CCTTTGAAAC TCAGAAAACG AACCTTGCTA CAGAACTCGA 300  
G 301

(2) INFORMATION FOR SEQ ID NO:346:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 447 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:346:

GAATTCGGCC TTCATGGCCT ACACATTTTG ACAGCTTCCT TTCAGGTTTC TTGAGCTCTC 60  
 AGAAAAATTA GAAGGAAGTG GGCTGGGGAT ATAGAGAGAG TCCAAACTAC CAACTAATGA 120  
 ATGAATCTGA AGGAGACACA GAAGGGCAAG TAGAGTTTAG AGTTTGAGAG TGCAGGAAAG 180  
 TTTTGAAATG GTCAGAACTG CCAGAGTAAT TTCTGAGATC TTAAGCA CTCTCCACC 240  
 GTTTCCTTA AAGATACCCC TTCCCCCAA TTGAAACATC ACAAATCTGC AGAGCTCTTT 300  
 AATCAGGTGT GTTATACACA ATGAATTTAA TTCTCTTATT GCCCTGGAAG AAAGATAAAC 360  
 CAGATGTGGC CTTGCCCCCT TTTCACTAAG TATTTGTTAG ATCTTCATTA CATTTTAGGC 420  
 CTCTAGGCC ATGAAGGCCG GCCTTCA 447

(2) INFORMATION FOR SEQ ID NO:347:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 297 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:347:

GAATTCGGCC TTCATGGCCT AAAATTCGGC TGATTTCCCC CTGGCTAGC CCAGCTGACG 60  
 GAGTCAAGAG CAAACCAAGA AAACTACAG AAGTGACAGG AACAGGTCTT GGAAGGAACA 120  
 GAAAGAACT GTCTTCCTAT CCAAGCAAA TTTTACGCAG AAAAATGCTG TAATTTCTTG 180  
 GGAAGATTTT AATGTACACC TATTTGTAAA GTCATCAGAA TAGTGTGGAT TATTAAATAT 240  
 CTAGTTTGA AGAAAATAAT TTATATAAT TATTGTAAAT TTTTATGTAA ACTCGAG 297

(2) INFORMATION FOR SEQ ID NO:348:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 241 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:348:

GAATTCGGCC TTCATGGCCT AGAATAAAAC AAAGCCTTTT CTGCCTTTTA CATTAGTTC 60  
 AGTAACCGTC AACACCCAC CCATATACTC CCATACCATG AGGTGTAATT TTCAAACCTCC 120  
 TCGCATACTT TTAATTAATA GTTTAATTAT TTGCCTTCTC ACTGAGTCTA TAATCTCACT 180  
 TAGGGTAAGA ACAGAACTCA ATTACAGATG CTCAGTAAAC ACTGGAAGGC CGCGGCTCGA 240  
 G 241



## (2) INFORMATION FOR SEQ ID NO:349:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 172 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:349:

GAATTCGGCC TTCATGGCCT AGGGCTGCCC AAGATTGTGA AAGGTAAGTA GTATCTTTAT	60
TTGGGGGTAA CTTAATTATA GATAAAAGAT GGTCCAATAC TGGAACTGT TCGTTTCTTC	120
CCTTGGATCT AGTCTTCTTC TGCTTTATAT AGAATCCAC CATCATCTCG AG	172

## (2) INFORMATION FOR SEQ ID NO:350:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 253 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:350:

GAATTCGGCC TTCATGGCCT ACACGTGACA GCCTTTCCT TTTGATCA CCTTCCTCAC	60
ACTGATGGTC TCATACAACA TCATTTTGAA TGTCTCAGC TCTCTGCACC ACCCACCAC	120
CTCCACTCTG GGCCACCGCT GGTGTATCCA AGATCAGGAC ACCAGTCCCT GGGCACCAGG	180
GAGTATGCTG GCCACTGAAG CAGCTTCGTT TTTCCGGCAC CCATGTTGTA AAATCGACTC	240
CCCCAACTC GAG	253

## (2) INFORMATION FOR SEQ ID NO:351:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 240 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:351:

GAATTCGGCC TTCATGGCCT AGAAAGTTTA AAGATTAGCG TACTGATTAT GATGGGATTT	60
TTACTGAAAA TTAGTTTGT CAGGCTGCTT GCTTGTCTGT GTATTTTCTA TTCTAATTTA	120
GTTTTTATTT TTATCAAAGC TGTATTTACT TATAATGTAA AAAGTCAATT AGTTTTCCAA	180
GGCTTATTAT GGAAAACAGT AGTTCCCCAG GCTCCCATCC CTATGTCCAA CAAACTCGAG	240

## (2) INFORMATION FOR SEQ ID NO:352:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 334 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:352:

```
GAATTCGGCC TTCATGGCCT AGACCTGCCT CTAAGCCTTT GATTATTCAG CTGCCACTGC      60
CTACAGGCCT TCTCCCATAT TCCTTCCTTC TTGCTAAGTC TGACTTAAAC TAGGCTTAGG      120
CACCAACTCC TATAGGAAGC CTTCTTGAA CCTGGCCCTC TACTTTTCAC TCACTGACTA      180
CCACTCAATT AACTGAACGG TGAAAAGTAA CCCACAGCTA CGCATTTCATG CAGACAACAG      240
AATTTTACTA CTTCTTCTCA CTACTGGTTC ATATTTCTGC AACCAGAAAA TATCATTTCA      300
TCCCTAGTAA CTATGGCTTC CATCTGTTAC TTCC                                  334
```

(2) INFORMATION FOR SEQ ID NO:353:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 92 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:353:

```
GAATTCGGCC TTCATGGCCT AATAATGACT TGTGGTTGA TTGTAGATAT TGGGCTGTTA      60
ATTGTCAGTT CAGTAGGCCA TGAAGGCCGA AG                                  92
```

(2) INFORMATION FOR SEQ ID NO:354:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 280 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:354:

```
GAATTCAGTT CCTTATATAT TCTAGTTATT AATCCCTTAT CAGGTGGATA GTTTCAGAT      60
ATCTTCTCCC ATTCTTAGG TTGTCTCTC ACTCTGTTGA TCGTTTCCTT TGCTCTGCAA      120
AAGCTTTGTA GCTTGAGATA ATCCCATTTG TCTGTTTTG CTTTGTGTC CTATGCTTTT      180
GAGGTCTTAC TCAAAAATT TTTGCCAGA CAGTACCCT TGAAGCATG CCCCAATGGT      240
TTTTTTTTT AGTCATTCA TAGTTCAGT CTTACTCGAG                                  280
```

(2) INFORMATION FOR SEQ ID NO:355:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 398 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:355:

```
GAATTCGGCC TCCATGGCCT ACATAGATGG GCACACTCAC ACACAGAAGT GTGCTTGTAC      60
AATCACCACA CAGCACAAA CACACACACA CACTAAAAAT ATAAAACACA TGCGTCACAT      120
```

GGGCATTTCA GATGATCAGC TCTGTATCTG GTTAAGTCGG TTGCTGGGAT GCACCCCTGCA	180
CTAGAGCTGA AAGGAAATTG GACCTCCATG CAGCCCTGAC AGGTTGTGGG CCCGGGCCCT	240
CCCTTTGTGC TTTGTATCTG CAGCTCTGTC GCCTTTTATA AGTCCATCCT AGTCCCTGCT	300
GGATGGCAGG GGGCTGGATG GGGGGCAGGA CTAATACTGA GTGATTGCAG AGTGCTTTAT	360
GAATTCACCT TATTTTATCG AAACCCATTG GACTCGAG	398

## (2) INFORMATION FOR SEQ ID NO:356:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 331 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:356:

GTGTCAGAGC AGGCATTTCC CAACCTAAGG AAATCTTTGT TTTCAAATAT TAGGGTTTTT	60
TTTAAATTGT GGTAAAGGA TTTTGGACAT GCTTTGTAAA TTGTTAGTAA AAGGACCTAT	120
TTTCCACCTG TATTCTAAGT TATTTTTTTC CCTCTTTTGT AATTTTTTCAG GTCAGCCCTT	180
CATAAACCCA GATGGGAGTC CAGTTGTGTA TAATCCTCCT ATGACTCAAC AACCAGTTAG	240
ATCCCAAGTG CCTGGACCTC CACAGCCACC TCTGCCAGCC CCACCTCAAC AACCAGCAGC	300
TAATCACATT TTCTCAGG CGCATCTCGA G	331

## (2) INFORMATION FOR SEQ ID NO:357:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 205 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:357:

GCTGCCTCGA GGTCTCCAAG ACTTTTTTCAT CTCGTATCGT TTCGGGATCC GTATCCATAC	60
TTTTATTTTC ACTTTCTTCC TCTTCCTCCT CGAACTCCTC GTCGCCATCC TGTCTGCCCA	120
GCTTCCCGTA GCCATCCTCG CCTTCTTTCT CGTGTCTCCTT CTCGCTCTCG CCATCCCTCG	180
GCATACTCTC CCTTCTCTC TCGAG	205

## (2) INFORMATION FOR SEQ ID NO:358:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 584 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:358:

CAAAAGAGAT GGTACCAGCA AGAGATTAAT ACTAAAGAAA TGCAGTCAGA TTTTAAAGAA	60
ACTGGAAGAA GAGCCATTTC TCCCAGGGAG AAGATTCTAG ATGTGATTGA TGACACCATA	120
GAAATGGAGA CAGGTCTGAA AGCAATGGGA AGAGAGATT TCTAAGGGA GAAGACGCCA	180
GAGGTGATTG ATGCCACTGA GGAAATAGAC AAAGATTGG AAGAAGCTGG AAGAAGAGAA	240
ATATCCCCAC AGAAAAATGG CCCAGAGGAG GTTAAGCCTC TAGGTGAAGT GGAGACAGAT	300

TTGAAAGCAA	CTGGATATGA	GAGTTCCCCA	AGGGAGAAGA	CACCAGAGGT	GA CTGATGCC	360
ACTGAGGAAA	TAGACAAAAA	TTTGGAGAG	ACTGGAAGAA	GAAAAATATC	CCCAAGGGAA	420
AATGGCCCCAG	AGGAGGTCAA	GCCTGTAGAT	GAAATGGAGA	CAGATTTGAA	CGCAACTGGA	480
AGAGAGAGTT	CTCCAAGGGA	GAAGACACCA	GAGGTGATTG	ATGCTACTGA	GGAAATAGAT	540
TTGGAAGAAA	CTGAAAGAGA	AGTATCCCCA	CAGGAAAACT	CGAG		584

## (2) INFORMATION FOR SEQ ID NO:359:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 344 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:359:

GAATTCGGCC	TTCATGGCCT	ATGCTTTCTG	AATTGGCAAG	ATATTCCAGG	CTTATTGGC	60
ATTCATCTTA	CTCTAGACCT	ATTATCAACC	ATGTCTCAA	GGATAAGTAG	ATCCTTTTAA	120
GGGAAAATGG	TATTTTGAAA	GCATAGTGTG	GGATCTGAGG	ATACCTATTC	CTGTCAGGTT	180
GGTTATTGTT	TGTTTTCACT	GAGTAGATCT	TGGACTTTAT	TAATTTTATT	TATTTATTTT	240
AAGAAAAGTA	CATCATGAGT	TATAAGTAAT	AATTCCAACT	CAAATTTTAA	TATTGCTTAA	300
CTTCTTTGAT	TTTATATTTA	TCTTTTACAC	TGAAAAGTCT	CGAG		344

## (2) INFORMATION FOR SEQ ID NO:360:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 362 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:360:

GCGGGTGGAC	AAAAATGAAG	CCAATGAAGA	AGGCATGCAC	TGGCCTTTCA	GGTCCTGGCA	60
GTGGCAGCAA	GTCCCCCCA	GCCACCAGGG	CCAAGGCTCT	GAGGCGGCGA	GGGGCTGGGG	120
AGGGTGACAA	GCCAGAGGAG	GAGGATGACG	AGGCACAGCA	GCCGCAACCA	CAGTCCGGGC	180
CCGAAGAGGC	TGAGGAAGGG	GAGGAGGAGG	AGGCTGAGCG	GGGCCCTGGG	GCTGAAGGTC	240
CTCCACTGGA	GCTGCACCCT	GGCGACCCGG	CTCCAGGCC	AGCAGAGGAC	CCCAAAGGGG	300
ATGGGGAGGC	AGGCCGCTGG	GAGCCCTCAC	TCAGCCGCAA	GACAGCCCCG	TTCAGTCTCG	360
AG						362

## (2) INFORMATION FOR SEQ ID NO:361:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 378 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:361:

GCACCACCTC	TTGCACTGTG	AGGAGTTTAT	TGATGAATTC	AATGGGCTGC	ACATGTCCAA	60
GGACAAGAGG	ATCAAGTCAG	GGAAGCAGTC	CAGTACCTCC	AAGCTGCTGC	GTGACAGTCG	120

```

AGGCCCCGTCG GTTGAGAAAC TGTCCACAG ACCTTCAGAT CCTGGAAAGA GCAAGGGGAC      180
CTCCCATAAA CGGAAGCGAA TTAACCTCC CCTGGCCAAG CCAAAAAAAG GGTATTCAGG      240
CAAGCCCTCT TCAGGAGGTG ACAGGGCCAC CAAGACGGTG TCTTACAGGA CTACCCCAAG      300
TGGTTTGCAA ATAATGCCCC TGA AAAAGTC TCAGAACGGG ATGGA AATG GGGACGCCG      360
CTCTGTAAGG ACCTCGAG

```

## (2) INFORMATION FOR SEQ ID NO:362:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 266 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:362:

```

GATTGTATTG AAAGTCAGAC ATAGGTGTGG AACCAGTTAT GGGAGTGAGG ATAAGTCTAG      60
ATTTGGGAAT CAGTCGCAGA GAGGTGGACG ATGAAAGTCT GAGAAGAAAAG GATCTTGCTA      120
ATGGAGTGAA CTCAGAGCTT GATAAAGGGA GGATGAGTGG AAATGGAGCT CAACGCTGTG      180
CCTTGGGAAA TACCTCTGTG GATTGGTGGG AGCACAGTGA GAAATTC AAG AAAGACACAG      240
ACAATGGAAT AACCAGAGAA CTCGAG

```

## (2) INFORMATION FOR SEQ ID NO:363:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 367 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:363:

```

GAATTCTAGA CCTGCCTCGA GCATTGCCCC CGGCCTAAGA AGCTCTCTTA TCTTGCACTCT      60
TGGGCTGGAC TCCTACAACA GCCACA ACTT CCGTGCTGGT CTCCAGCTT CTAGCCTTCC      120
CCCATCTCCT GTCGTTTTTCG ACACAGCAGC CAGAAGGATC CTTTAAAAAC AGAGGTGAT      180
CCTGTCGTTT CTCAAAATCC TCCAATGCTT TTCCTACTGC ACTCAGAGTA AAAGCCAGTC      240
TCTGCCTTAG ATGCTCTGGG ATCCTGTACC CTCTTTGGTC TCATGTCCTA CAATCTGCAT      300
TCTGGCCATA ATGGTCTTCT CTGCTGTTCC TTGAACATTC CAGGAACATT CCCCCATAC      360
CCTCGAG

```

## (2) INFORMATION FOR SEQ ID NO:364:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 383 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:364:

```

GAATTCGGCC TTCATGGCCT ACTGGGTTCT GAGAAGCAGT GGCCCGAGCT GAAGCATCCA      60
GACAATGAGT GTTCAGAAGC TGCCAGATTC TCACCTAGCC TTAGAAGTAA CACAGCCACA      120
TTCTGTCGGT TACAAACACA TTTCTAAGGC CAGTCCAGAT TCAAACGGAG GGCAATTAGA      180

```

```

TTTGACCCCT TGATGAAGGA GGGCAAGGTT ACACTGAAAA ACAGCATAGG GACTGGGAGA      240
TATTATGATG TCCATTTTTG GAAAATCTGC CACAGACACA GTGAAGACAG AGAGCCCTTC      300
TCTCTGATCG AGGACCTCCA GAATGATCTG CTGAGTCACT CAGGTATGCT GGACCATTCA      360
CACTCACCCC GGAAAAGCTC GAG                                              383

```

## (2) INFORMATION FOR SEQ ID NO:365:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 356 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:365:

```

GAGGTTTACA GGTTAAGCA TTTGTTTTTA CAAAAAGGAA TGGGATATGG GGGTGGTCAA      60
GTTTTACGGG TAATAACAAC ATTCTCTCTA GATGGCAGGG GGTAAGTCTG CCTGTCCTCC      120
ATTGCTGGTA CCACATAAGG GATACATTAG TAAAGTAGGG AAAGGGTCAT ATGTGTGGTT      180
GACCTGTTCT TCAGAGAGGA ACGTGGGATG GTATCTGCTG TGTACCTGTC TCAGACCAAA      240
CCTGGGGGTG GACCAGTGCC CCTTTCTTCT CAGCCTTCTT CCACAGCCTG ACTGTACTGC      300
CACCCGCACC CATGAGAAGG AGGTNNTGAA GGAAGCTTGA GGACATCCAC CTCGAG      356

```

## (2) INFORMATION FOR SEQ ID NO:366:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 246 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:366:

```

GAATTCGGCC TTCATGGCCT ACAACCATTG AAAAAATATA GACTTAGAAA ACGAAAGTTC      60
CCCTTAATCA CAAAGAACCA CAGTTGACAG GGTGATAGA TGTTTTTCA GATTTTTTTT      120
TTCATATGTC TGCTATCTTT CCCCACAGGA ACTGGGTTTT ATTTTAGGTG TTGTTTGGCA      180
ACCTCTGTTT TTCAGTTGCC AGTTTATCTC AGACATTGTC CTATGTCAGT ACAGGCCCAT      240
CTCGAG                                              246

```

## (2) INFORMATION FOR SEQ ID NO:367:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 238 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:367:

```

GAATTCGGCC TTCATGGCCT ACAAAAAAAC AACTTTCCAG TGGCTTCTCA CTGCTCTGAG      60
AATAAACTCC AGGCTCTTCC ATTGCAACCA ACAGGATCTG GTGATTGAC CCCAGCCCCCT      120
CTTTCCAGGC CCTCATCACC TTGATCCTCC CTTAACCTAT CCTGCTCCAG CTGCACTGGC      180
TGCCTTCCTA TTCCTCCAGC ATACCAAGAT TGTTTCTGCC ACAGGGCCGC CACTCGAG      238

```

## (2) INFORMATION FOR SEQ ID NO:368:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 231 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:368:

```
GAATTCGGCC TTCATGGCCT AGTTTTTCT ACTCCTACAA GTGTAAATTG AAAAATCTTT      60
ATATTAAAAA AGTAAACTGT TATGAAGCTG CTATGTACTA ATAATACTTT GCTTGCCAAA      120
GTGTTTGGGT TTTGTGTTG TTTGTTTGT TGTGTTTGT TGGTTCATGA ACAACAGTGT      180
CTAGAAACCC ATTTTGAAAG TGGAAAATTA TTAAGTCACC TATCACTCGA G              231
```

## (2) INFORMATION FOR SEQ ID NO:369:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 277 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:369:

```
GAATTCGGCC TTCATGGCCT ACTTGGTCTT CTGCACTTTT GTCTCTGACG TACTTCCTTT      60
CTTCACAAGT GCCATTACAA GAAAGCTGGG CTTAAACCAT TCCCAGCTAT TCCTCCTACA      120
GCTTTCCTGA ATTATTCAG AATACAAAAT TCTGTATCTC CAAGAACTA TTACAGATTT      180
AGATTAAAAA ATATGCACTA TTTTCTACCT TGTATGTTTT GCTTACTATT TTTTTTTTGT      240
AGAGGATATG TCTTAAAAAT TGAAATGCAT CAAAAAT              277
```

## (2) INFORMATION FOR SEQ ID NO:370:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 348 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:370:

```
GAATTCGGCC TTCATGGCCT ACCAAGTCAA AAAATAGAAC AGTTCCGGCA CCCCAGAAGC      60
CCTTTGCCAC GTGGTCACAA CCCTCCCTGT TTCCACCAAC AGTAACATTC TAGTTTTTAC      120
AGTAATTTCT TCCTTGCTTT TCTTTGTAAT TTTACTGCCC TGTGTTTCTT AATATGATTT      180
AGTTTTGCCT GGTTTTGCCT TCATATAAAT GAAATCATAC TGAATATATT ATTTTCATATT      240
TTGCCCAATA TTTGTTTGT AAGATTTCATC CATCTTGTAG CTCCAATGTA TTTATTTTCA      300
TTTTTGATATA ATTATATGAT TATGCCACAG TTTGTCAGTT CACTCGAG              348
```

## (2) INFORMATION FOR SEQ ID NO:371:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid

(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:371:

GAATTCGGCC	TTCATGGCCT	AGAATTATTA	GGAAACAAAT	GGTTTTGCTG	TCTTTTGGTC	60
ATTAGCTTGG	CCCCATGTTT	AAGCATTCGG	TAACAACTGT	GAAGAGCCTG	CTACAAATAA	120
AGTGGTAGGT	GCTCTGAAGA	AAAATAAAGC	TGTTAAAGGG	AATAGAAAGT	GATGAAGGCA	180
GGGGCTGTTA	GACAGGCTGG	TCAGTGTCTG	AGGAAGTAGC	CCTGCACTGA	GACCTGAAAA	240
GTAAAGAAGC	AAGCCATGGG	GAGTTGGGGA	GGAGCATTCC	AGACAGAGGC	TTGATGTGTT	300
GAACCATCTT	TTCCAAGCTC	TTCTCTGTT	ACCTTCTCTT	TAGTCACTAT	GTCCCCTTTC	360
TATCCAGAC	CATAATTCCA	CCATTTATCT	TAAGGCTGAG			400

(2) INFORMATION FOR SEQ ID NO:372:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 268 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:372:

GAACGATTGA	ATTCTAGACC	TGCCTCGAGA	TCAGCACTAA	CCCCCCAAC	TCCCAGCCTT	60
TAGTTTGCTG	TAGGCTGTCA	AACCAGATAA	CCAAACTTGT	TAAATTGAGA	ATCAATAGGC	120
TGTACATAGG	GACTACAACA	GAATGACGCT	CATTATTGAC	AGAATCAAGT	TCAAATCCTT	180
TGTCCTGGCG	TCTGTTGGCC	TCTGGCAGCT	GGCTCATCTG	GCATTAGCTG	GTTGCACGAG	240
TTGCTGCAAC	CCTCCCACCC	CGCTCGAG				268

(2) INFORMATION FOR SEQ ID NO:373:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 463 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:373:

GTGAGGTTTT	AAC TGAGCTC	GAAGAATTGG	AATCAAAAGA	GATAGGTTTG	TCTCAGTCCA	60
GACAGTGGAT	AGCATAAGGA	AAGTACAAC	GCAGAAAAGA	GGGGGACAGC	GAAGAGACTG	120
GATTGATGCG	TTATCTAGGC	GGTACCTGTC	TCCATTCTTT	TCTAGCCAGC	CTTTGAGCAT	180
TTCATCAAGA	ATAGAGGAAT	TCAAAGTACT	GCAGTCTGCT	TGAACCAAGT	CTTGTGAGTG	240
GCTCTAAAAA	AAATACTTGA	ATTTGAAC	GAAAGAACAC	TCAAATAAGG	TTTGGGGCTT	300
CTCTTTGTTT	AATACTTTAA	GCGTCTTATT	TCTAACATAA	ATATACTGAT	TGCACAGAAT	360
TTGATTGTTT	ATAGCAGCAG	TTGCCTGTAC	TTTGAATTC	TCAGATATTA	GAGCTGAAAG	420
ATCATCTGAG	TTACTTTATA	AATGGGGAAA	TCTCGATCTC	GAG		463

(2) INFORMATION FOR SEQ ID NO:374:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 451 base pairs  
(B) TYPE: nucleic acid



(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:374:

GAACGGCAGC	CATTGAAGCA	TATTGGA AAA	GGAAGTGGG	AATTTATTAA	AGCACTCATG	60
AAGGAAATTC	CAGCGCTGCT	TCATCTTCCA	GTGCTGATAA	TTATGGCATT	AGCCATCCTG	120
AGTTTCTGCT	ATGGTGCTGG	AAAATCAGTT	CATGTGCTGA	GACATATAGG	CGGTCCTTGA	180
GAGAGAACCT	CCCCAGGCAC	TTCGGCCACG	GGATAGAAGA	CGGCAGGAGG	AAATTGATTA	240
TAGACCTGAT	GGTGGAGCAG	GTGATGCCGA	TTTCCATTAT	AGGGGCCAAA	TGGGCCCCAC	300
TGAGCAAGGC	CCTTATGCCA	AAACGTATGA	GGGTAGAAGA	GAGATTTTGA	GAGAGAGAGA	360
TGTTGACTTG	AGATTTTCAG	CTGGCAACAA	GAGCCCTGAA	GTGCTCCGGG	CATTGATGT	420
ACCAGACGCA	GAGGCACGAG	AGCCCTCGA	G			451

(2) INFORMATION FOR SEQ ID NO:375:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 513 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:375:

GAATTCGGCT	TCATGGCCTA	CTCAGATCTT	AAAATTCAGG	CTGTCAAAGA	GATTTGCTAT	60
GAGGTTGCTC	TCAATGACTT	CAGGCACAGT	CGGCAGGAGA	TTGAAGCCCT	GGCCATTGTC	120
AANATGAAGG	AGCTTTGTGC	CATGTNTGGC	AAGAAAGACC	CCAATGAGCG	GGACTCCTGG	180
AGGGCAGTGG	CCAGGGACGT	CTGGGATACC	GTCGGTGTG	GGGATGAGAA	GATCGAAGAC	240
GTCATGCGCA	CTGGGAAAGG	CAGCACTGAT	GTAGATGACC	TCAAGGTTCA	TATAGACAAG	300
CTGGAAGATA	TTTTGCAAGA	AGTCAAAAAG	CAAAATAACA	TGAAAGACGA	GGAGATAAAA	360
GTCTTAAGAA	ATAAAATGCT	CAAAATGGAA	AAAGTCTTGC	CACTGATCGG	ATCTCAGGAA	420
CAGAAAAGCC	CAGGAAGCCA	CAAAGCAAAG	GAGCCTGTTG	GTGCTGGTGT	TAGTAGCACC	480
TCTGAGAATA	ATGTAAGTAA	AGGAGACCTC	GAG			513

(2) INFORMATION FOR SEQ ID NO:376:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 303 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:376:

CAGAATGGGA	TCGAAGCCTG	CCTCCTTAGG	NTCTTTGCCN	TCATCCTCTC	TGGCAAATGC	60
AGTTACAGCC	CGGAGCCCGA	CCAGCGGAGG	ACGCTGCCCC	CAGGCTGGGT	GTCCCTGGGC	120
CGTGCGGACC	CTGAGGAAGA	GCTGAGTCTC	ACCTTTGCCC	TGAGACAGCA	GAATGTGGAA	180
AGACTCTCGG	AGCTGGTGCA	GGCTGTGTG	GATCCAGCT	CTCCTCAATA	CGGAAAATAC	240
CTGACCCTAG	AGAATGTGGC	TGATCTGGTG	AGGCCATCCC	CACTGACCCT	CCACACGCTC	300
GAG						303

(2) INFORMATION FOR SEQ ID NO:377:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 334 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:377:

```

GAATTCGGCC TTCATGGCCT ACTTCATTGT AAGGTACTTC TTTGCGGCGC TGACAGTGCT      60
CAGGCTCCTG GGCCTCCTCC ATGGACTCGT GCTGCTGCCT GTGCTGCTGT CCATCCTGGG      120
CCGCGCGCCA GAGGTGATAC AGATGTACAA GGAAAGCCCA GAGATCCTGA GTCCACCAGC      180
TCCACAGGGA GCGGGGCTTA GGTGGGGGGC ATCCTCCTCC CTGCCCCAGA GCTTTGCCAG      240
AGTGACTACC TCCATGACCG TGGCCATCCA CCCACCCCCC CTGCCTGGTG CCTACATCCA      300
TCCAGCCCCT GATGAGCCCC CCAGGTCCCT CGAG                                     334

```

## (2) INFORMATION FOR SEQ ID NO:378:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 305 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:378:

```

GGATTTTAAG GATCACATTC CAAGGGAAC TGATATGAAG GTTGCAATGA ATGTGTATGA      60
GTTATCATCA GCTGCCGGAT TACCTTGTA GATTGATCCT GCATTGGTCG TAGCTCTTTC      120
TTCACAAAAA TCGGAAAAA TTAGTCCAGA AGAAGAGTAT AAAATTGCCT GCCTTCTCAT      180
GGTGTGTGTG GCAGTTTCTT TGCCAACACT GGCCAGTAAT GTGATGTCTC AGTACAGCCC      240
TGCTATAGAA GGGCATTGCA ACAACATACA TTGCTTGGCC AAAGCCATCA ACCAGATTGC      300
TCGAG                                     305

```

## (2) INFORMATION FOR SEQ ID NO:379:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 329 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:379:

```

GAATTCGGCC TTCATGGCCT ACCCAAACAT TATCCCTCTA CACTGTCCCC ACTATGCTAT      60
ACCCCTGCAC TATACCCCTA TGCTGTCTCC CTTACGCTAT CCCCCTATGC TATGTCCCCT      120
ACACTATCCC CCTTTGTTGT CCCTCCATGC TACTCCCTAC GCTATCCCAC TACTCTATCC      180
CCCTGACGCT GTCCCCCTAC GCTATCCGCG TACACTGTTC CCCCTACACT ATCTCCATAC      240
ACTGTCCCCC TAACTCTCTC CCCTACTCAA TTCCCCCTAC ACTCTCCGCG TACACTATCC      300
CCGCTACACT ATCCCCGAC GCTCTCGAG                                     329

```

## (2) INFORMATION FOR SEQ ID NO:380:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 273 base pairs

(B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:380:

GTCGAATGC	TCTTTACTTC	CTTTGTGGAG	CCTCCCTGCA	CAAGCAGCAC	TTTCTTTTGC	60
CATAGCAACA	TGTGCATCAA	TAATTCTTTA	GTCTGTAATG	GTGTCCAAAA	TTGTGCATAC	120
CCTTGGGATG	AAAATCATTG	TAAAGAAAAG	AAAAAAGCAG	GAGTATTTGA	ACAAATCACT	180
AAGACTCATG	GAACAATTAT	TGGCATTACT	TCAGGGGATTG	TCTTGGTCCT	TTCATTATT	240
TCTATTTTAG	TACAAGTGAA	ACAGCATCTC	GAG			273

(2) INFORMATION FOR SEQ ID NO:381:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 338 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:381:

GAATTCGGCC	TTCATGGCCT	ACATAACTCT	CCACAGGCTC	CCCTGGGAGG	GGTGCCCCCA	60
CCTCACCCGC	CACCTCACTT	CTCAGCCCCCT	CTTCCCATCC	AAGGGCTCCC	TGGGCTGCCC	120
CCACCCTAGT	CATGATCTCG	CTCCTCTACT	CTCTCGTAGT	ACTTTATTTT	TACCTTGCTC	180
CTGGCTCACA	TTACATGCTT	ATCTTGTATT	TATAGATGGT	TCTACATATG	TCTCCTTTTG	240
CATCCTTTTC	TCAAAGCTCC	TGTGAGGCCA	GGGATGGTTT	TATGCCTTTT	CTCATCCCCT	300
TATGTTCTAG	TATAATGCTT	TACACATGTT	TACTCGAG			338

(2) INFORMATION FOR SEQ ID NO:382:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 334 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:382:

GAATTCGGCC	TTCATGGCCT	ACTTCTCTCT	CTTTTTTCCT	GTAAGTGTGC	TGGTTTTGTT	60
TTGGTCTTCC	TCTCATACCC	GTTTCTGCAT	TTTCATCTTT	CTTCTATTG	GGACTTCATT	120
TCATTTTTTT	TAAACCTTAT	CTTTGTGTTT	TCTTGTTTAT	CCCATCCTTT	TTGATAAAAT	180
CCATCGCATG	TGTCTTCTTT	TTTTCTTTAT	TTTCTTTCCT	TTCTTTTTTC	CTTTTCTTTT	240
CTCCCAAAC	TTTTCCTTTT	CACAGCATTG	GAACACGGGA	GGTAGTCACC	CAGAAGAACT	300
TGAGCGGCCT	GGTGCCCATC	CGAGACCACT	CGAG			334

(2) INFORMATION FOR SEQ ID NO:383:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 232 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:383:

```
GCAGAAAATA TGGTATCGGT TTCATTTAAT AAAAATGAAA AAATAATTTT CAGTTATCAG      60
TAATTTCTCA GTTACACAAC CTCTGCCTTC ATTTCCGCTT AGCCATGAAC TTTTACTGCT      120
ACAAAGGAAT TTAATAATAGC CAAATTCTAC AATTCTGGCT GGGTGTGGGG GCTCATGCCT      180
GGGATCTCAG TAGTATGGGA CCCCAGAGCA GGTCTAGAAT TCAATCCTCG AG              232
```

(2) INFORMATION FOR SEQ ID NO:384:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 426 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:384:

```
GCCTCTGCTT TTAATTCATT GGCAACTGTT ACGATGGAAG ACCTGATTCG ACCTTGGTTC      60
CCTGAGTTCT CTGAAGCCCG GGCCATCATG CTTTCCAGAG GCCTTGCCTT TGGCTATGGG      120
CTGCTTTGTC TAGGAATGGC CTATATTTCC TCCCAGATGG GACCTGTGCT GCAGGCAGCA      180
ATCAGCATCT TTGGCATGGT TGGGGGACCG CTGCTGGGAC TCTTCTGCCT TGGAAATGTT      240
TTTCCATGTG CTAACCTCTC TGGTGCTGTT GTGGGCCTGT TGGCTGGGCT CGTCATGGCC      300
TTCTGGATTG GCATCGGGAG CATCGTGACC AGCATGGGCT TCAGCATGCC ACCCTCTCCC      360
TCTAATGGGT CCAGCTTCTC CCTGCCCACC AATCTAACCG TTGCCACTGT GACCACACTT      420
CTCGAG                                         426
```

(2) INFORMATION FOR SEQ ID NO:385:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 282 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:385:

```
GAATTCGGCC TTCATGGCCT AGGCCCTTAA ACTGGATTCA AAAAATGCTC TAAACATAGG      60
AATGGTTGAA GAGGTCTTGC AGTCTTCAGA TGAAACTAAA TCTCTAGAAG AGGCACAAGA      120
ATGGCTAAAG CAATTCATCC AAGGGCCACC GGAAGTAATT AGAGCTTTGA AAAAATCTGT      180
TTGTTCAGGC AGAGAGCTAT ATTTGGAGGA AGCATTACAG AACGAAAGAG ATCTTTTAGG      240
AACAGTTTGG GGTGGGCCTG CAAATTTAGA GGCTACCTCG AG              282
```

(2) INFORMATION FOR SEQ ID NO:386:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 250 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:386:

GATTGAATTC TAGACCTGCC TCGAAGGCCG AGAGGGAAAG TTGAAAGGTC CCAAATTCAA	60
GATGCCTGAG ATGAACATCA AAGCCCCCAA GATCTCCATG CCTGACATTG ATCTTAACCT	120
GAAAGGACCC AAAGTGAAGG GTGATATGGA TGTGTCTCTG CCAAAAGTGG AAGGTGACAT	180
GCAAGTTCCT GACTTGGATA TTAAAGGCCC CAAAGTGGAT ATTAATGCCC CAGATGTGGA	240
TGGACTCGAG	250

## (2) INFORMATION FOR SEQ ID NO:387:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 344 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:387:

GAATTCTAGA CCCACCTCCA CCTTTAACTC GAAGTAACAC TGCAAATCGT TTAATGAAAA	60
CACCTCTCAA ACTGAATTTA TGTGTTGATA AAACAGAGAA AGGAGAAAGT AGTAGTCCTT	120
CTCCATCAGC TGAAAAAGGA AAGATTCTAA ATGTTTCAGT GATTGAAGAA AGTGGCAATA	180
AAAACGATCA AAAGTCTCAA AAAATTATGA AGAAGAAAGA GTCATCTTCT ATGTTGGCTA	240
CAGTTAAAGA AGAAGTCTCT GGTAGTTCAG CAGCTGTTAC GGAGAATGCT GATAGTGATA	300
GAATTCTGTA TGAAGCAAAT AGTAATTTTA ACCAAGGGCT CGAG	344

## (2) INFORMATION FOR SEQ ID NO:388:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 165 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:388:

GGAGTAATCA GAGGTGTCTT TGTGTTGTGA TAAGGGTGGC AGGAGTGGAC ATTCTTCACA	60
TACACCCATT ATTGTTTTGA AGTGTTTAAT TACCTTTTA GCTACATTTT TGCAGCTGAG	120
TTTAGAATGA AAACCACAAG AGTTTTATTG TTGGCTGTAC TCGAG	165

## (2) INFORMATION FOR SEQ ID NO:389:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 252 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:389:

GAATTCGGCC TTCATGGCCT AGAACAGAGC TTAATTATTC TTTCTGAAAC CAAGGCTTCT	60
CTAGTGAGCA CCATGAGCCT TTGGAACAA CAGATGTATA CAATAGCAAA GTTTCATTTT	120
TTTACCTTGA AACGTGAAAG TAAATCAGTG AGATCAGTGT TGCTTCTGCT TTTAATTTT	180
TTCACAGTTC AGATTTTTAT GTTTTTGGTT CATCACTCTT TTAATAATGC TGTGGTTCCC	240
ATCAAACTCG AG	252

## (2) INFORMATION FOR SEQ ID NO:390:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 479 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:390:

```

GAATTCGGCC TTCATGGCCT AGGATGTTCA CTTGCATGCC TCTGGATTTT AAAATTATTG      60
TTCACATGAC TCCTTTTCTG TCGTGTGGGA AGCAGCTACA GAGCAGTAGA ATCCACTGAA      120
TTGGTACACT GAAGCAGGCA TGCCATTTAA ATGAAGGCAG TTAACCTTGA CTGTTGTATC      180
ACCAGAGTTA AAGAATTCTG GTGCCCCTCT TTAAGTCTTC AGGAAGTGTT TAGAGGCTTA      240
TTCACATTAG TTAAAACAGG CCCCCCCCAC CTTCCCCAAG GCAACAGAAA ACATAACCAT      300
TAGCTCTCTT CCTGTTTTC TCCCTCATT CATGCTTGCT TCGGCTGCTA AACTGAATTT      360
TTGTTACTTA GAATATTATA AAGTGTGGAT GCTTTCTATA ATGCTATTGG TCTAAGTGTG      420
ATTAAATTTC ATTAAGGTGT ATAAGCCTCT AATTATTACA TAACTGGCAC TGGCTCGAG      479

```

## (2) INFORMATION FOR SEQ ID NO:391:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 250 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:391:

```

GAATTCGGCC TTCATGGCCT AGCCTATTAC ACAGTAAGTT AATAATTGTG TCCTTGCAAA      60
TAAGCATTGT GTTCTGAAAT GGAATCAGCA TATTTCCCTA TAAAGACACT TCCACTCATT      120
CATTAAATGA GCAGCCCCAG TTGATAAAGA ATCAGTATAT CATGTTCTGA TATTTAATCA      180
GCAAACTCAT TTATTCAGTA GAAATTTGAA TTCTGTGAT GTGCCAGGCT TGTGAGGAGG      240
GAGACTCGAG

```

## (2) INFORMATION FOR SEQ ID NO:392:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 337 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:392:

```

GAATTCGGCC TTCATGGCCT AGTCGACTCC TGTGAGGTAT GGTGCTGGGT GCAGATGCAG      60
TGTGGCTCTG GATAGCACCT TATGGACAGT TGTGTCCCA AGGAAGGATG AGAATAGCTA      120
CTGAAGTCCT AAAGAGCAAG CCTAACTCAA GCCATTGGCA CACAGGCATT AGACAGAAAG      180
CTGGAAGTTG AAATGGTGA GTCCAATTG CCTGGACCAG CTTAATGGTT CTGCTCCTGG      240
TAACGTTTTT ATCCATGGAT GACTTGCTTG GGTATGGAGA GTCGGCTTGA CTACACTGTG      300
TGGAGCAAGT TTAAAGAAG CAAAGGAACT CCTCGAG

```

## (2) INFORMATION FOR SEQ ID NO:393:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 216 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:393:

```

GCGATTGAAC TCCTGACCTC AAGTGATCTG CCCACTTGTG CCTCCCAGAA CTGGGATAAA      60
AAAAAAAAAA ATAGATCCTT GGTATTATTC CATTACATAC GGATTGTAAA ATTCAGTTAA      120
ACATTCATCT CTTGGTGGGC ATTTATGTAT TTCTTTTGTG TGTGTTGTTG CAGCATTGCT      180
CTGTAAACC  TTTTATAAG TACATCTCGA CTCGAG                                216

```

## (2) INFORMATION FOR SEQ ID NO:394:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 248 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:394:

```

GAATTCGGCC TTCATGGCCT ACCACATTTG TAACGGAGCC ATTGAAGCAT ATTGGAAAAG      60
GAACTGGGGA ATTTATTAAA GCACTCATGA AGGAAATTC AGCGCTGCTT CATCTCCAG      120
TGCTGATAAT TATGGCATTG GCCATCCTGA GTTCTGCTA TGGTGCTGGA AAATCAGTTC      180
ATGTGCTGAG ACATATAGGC GGTCTGAGA GCGAACCTCC CCAGGCACTT CGGCCTGGGA      240
TACTCGAG                                248

```

## (2) INFORMATION FOR SEQ ID NO:395:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 238 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:395:

```

GAATTCGGCC TTCATGGCCT AGCCTTCCTC TACCATTTT AATTTTITTA GACTTCATTT      60
TGTGATTTAT TGCTGCTCTG GGGGCTTCAC ATCCAATCCT TTTATGGTTT CATCTTTCCT      120
TTCCTTACAT TTGTTGCATA TAACAATGGC GTGTTTAGCT ACTGCAGTGA AAAATCAATC      180
AAGCCTATTC CATATTCACA GGCTTGCAAT GGCACCAACG GCTCCTGGAT CTCTCGAG      238

```

## (2) INFORMATION FOR SEQ ID NO:396:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 188 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:396:

GAATTCGGCC	TTCATGGCCT	AAGTTGATCC	GGATACACAC	CTGCTAAAAC	TGCTTAAAAC	60
ATTAGAAGGA	CATGCTTATG	GCGTTTCTTA	TATTGCATGG	AGTCCAGATG	ACAACTATCT	120
TGTTGCTTGT	GGCCAGATG	ACTGCTCTGA	GCTTTGGCTT	TGGAATGTAC	AAACAGGAGT	180
CTCTCGAG						188

## (2) INFORMATION FOR SEQ ID NO:397:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 485 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:397:

GAATTCGGCC	TTCATGGCCT	ACAGGCATGT	TGAGATTGG	AAAAGTGGAT	GTAAGTAAA	60
TTCAGATAGC	TTTAGTGATT	GTCTTGTGT	TGTCTGCATT	TGGAGGAGCA	ACAATGTGGG	120
ACTATACGAT	TCCTATTCTA	GAAATAAAAT	TGAAGATCCT	TCCAGTTCTT	GGATTCTAG	180
GTGGAGTAAT	ATTTTCCTGT	TCAAATTATT	TCCATGTTAT	CCTCCATGGT	GGTGTGGCA	240
AGAATGGATC	CACTATAGCA	GGCACCAGTG	TCTTGTCAAC	TGGACTCCAC	ATAGGACTAA	300
TTATTATACT	GGCAATAATG	ATCTATAAAA	AGTCAGCAAC	TGATGTGTTT	GAAAAGCATC	360
CTTGTCCTTA	TATCCTAATG	TTTGATGTG	TCTTTGCTAA	AGTCTCACAA	AAATTAGTGG	420
TAGCTCACAT	GACCAAAAGT	GAAGTATATC	TTCAAGACAC	TGTCTTTTGT	GGGCCAGGGC	480
TCGAG						485

## (2) INFORMATION FOR SEQ ID NO:398:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 268 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:398:

GAATTCGGCC	TTCATGCCTA	GTGGATCCGG	AAACTCTGTG	GCTCTAGACT	TTCAACTATT	60
TTATTTTTTC	TTTTGTATTT	TTTGTGTTT	GCTTGCTTTT	TTACAATGGG	AACTAGAATG	120
TAAGATGCCA	AACTCAGCCT	GTGGGGAACA	TGGATTTTCA	CAACAGCAAC	CACAGAGCGT	180
GGTTTCCATT	TCTATCCCT	GTTTATGTGG	GAGGCAGAGA	AGGAAATCAG	GTGCTCAGTT	240
CCAGGGACAT	CACAGGACAG	GACTCGAG				268

## (2) INFORMATION FOR SEQ ID NO:399:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 286 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:399:



GAATTCGGCC	TTCATGGCCT	ACACCTCTTC	TGCCAACCAG	CTGCTTGGA	TGACTGCGAT	60
CCCGTGTGCT	TGTCTGGGTA	TCTTCCTGGG	AGGTCTTTTG	GTGAAGAAGC	TCAGCCTGTC	120
TGCCCTGGGG	GCCATTCGGA	TGGCCATGCT	CGTCAACCTG	GTGTCCACTG	CTTGCTACGT	180
CTCCTTCTCT	TTCCTGGGCT	GCGACACTGG	CCCTGTGGCT	GGGGTTACTG	TTCCCTATGG	240
AAACAGCACA	GCACCTGGCT	CAGCCCTGGA	CCCCTACTCG	CCCAAG		286

## (2) INFORMATION FOR SEQ ID NO:400:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 242 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:400:

GAATTCGGCC	TTCATGGCCT	ACCTGCCTCG	AGATGATCAT	TCTTTTCTTG	CTTCTAGGCT	60
CTGTGTCCTC	CTGGTTTCCT	CCAACCTCTC	TGGTCCTGTT	TCATTGCTG	TGGGTTCCTT	120
TTGCCTTTGC	CACCCCTCAA	ATGGGGCTTC	TCACTCACAC	TAGTGAGTTT	TCAGTGCTTG	180
CAGACCCAAC	ACCCTCTTTT	TATAACAAAT	ATTTTTTAAT	ACGTCCTTTT	CCACAACCTG	240
AG						242

## (2) INFORMATION FOR SEQ ID NO:401:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 297 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:401:

GAATTCGGCC	TTCATGGCCT	AGTCCCATCA	GAGGGAGCTG	ATGAAGAATG	GTCCCTGTAA	60
GTAAGTCACT	AGGTCAACA	ACTGCCTGGC	CGAGCACTCA	GCCCGTGGAG	CTCAGGCCAA	120
CACCAGAGCC	CCGGTTTCTAG	GGGCCAGGAG	AGCAGGTGAC	CAATTATTTG	GGGAGTCTTG	180
GGTAGAATTT	CCGCCACACA	TTCTCCCCAG	GGCTGCAGGG	GTCTTCCGAG	GCAGGGCGGT	240
GGAGCAGGAT	TCAGGATGTG	GTGGGAATAG	AGTGAGGGGC	AGTGGGTGGT	GCTCGAG	297

## (2) INFORMATION FOR SEQ ID NO:402:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 318 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:402:

GAATTCGGCC	TTCATGGCCT	AAAAAAGTAG	AATAATGGAA	GAGTAAATAA	ACACAATTCT	60
TAATGTATTA	CAAGAAATAA	AAGGTTTAAA	AGTAGATTTT	TTAATTGAAA	AGAATTAAAT	120
CAGATAAAAA	TATTTGAGAG	GTAATGCAAA	CATTTAAGTT	TGTCAAAGAA	GCTTCAACAT	180
CTGGATAATA	GCAAAGAAAA	AAACCAAAGC	AAAAGAAAAA	TAAGCCACAA	ACTAAAAAAT	240
GTTTAGTTCT	TGAAATTTAA	AAAAGTAAAT	ATTGAAAGAG	CATGCTGTGT	ACCTGAGATT	300

ATTTACCCAA AACTCGAG

318

## (2) INFORMATION FOR SEQ ID NO:403:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 355 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:403:

GAATTCGGCC TTCATGGCCT AGATTGAATT CTAGACCTGC CTCGAGTCTG GGCACCCTGA	60
GCAGCAGCCT GAGCCGGGCC AAGTCTGAGC CCTTCCGCAT TTCTCCGGTC AACCGCATGT	120
ATGCCATCTG CCGCAGCTAC CCAGGGCTGC TGATCGTGCC CCAGAGTGTC CAGGACAACG	180
CCCTGCAGCG CGTGTCCCGC TGCTATCGCC AGAACCCTT CCCCGTGGTC TGCTGGCGCA	240
GCGGGCGGTC CAAGGCGGTG CTGCTGCGCT CTGGAGGCT GCATGGCAA GGTGTCGTCG	300
GCCTCTCAA GGCCAGAAC GCACCTTCTC CAGGCCAGTC CCAGGCGGAC TCGAG	355

## (2) INFORMATION FOR SEQ ID NO:404:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 346 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:404:

GAATTCGGCC TTCATGGCCT AGTCATGGAA CAAGTCCTTG CTAACTAGA AAACAGGACT	60
AGTATTACTG AAACAGATGA ACAAATGCAA GCATATGATC ACCTTTCATA TGAAACACCT	120
TATGAAACCC CACAAGATGA GGGTTATGAT GGTCCAGCCT GGGTGACAGA GCGAGACTCT	180
GTCTTATAAA GAAAAAAAAA AAAAGAAGTG GCAGCTCTGT CTGCTTCTCA CAGAGTTGCT	240
AGGGACAACT GCTGAGGCAG GCACCTGCCC TTGGGCTCCC CGGGTGGGCT GCTATTGACC	300
TGTGGGCTCT GCCTGCCCGC CTGTCCAGTC CCCGGGTGG CTCGAG	346

## (2) INFORMATION FOR SEQ ID NO:405:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 247 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:405:

GCGATTGAAT TCTAGACCTG CCTCGAGAAC AGGGAACCTT CAAACAAAAG ATATATCATA	60
GGAAGTCAGG TGAGAAGCTG TCAACTGGGC AGGCAGTGAT GAGAATCGTA GTTGTCTTAC	120
TGTACTTTTT TGTTTTGTTT AAAAAACCTA AAGCATCAGC CATTTTGAAA GCAGAGTTTG	180
CAGAGAGCCC CCAACAGAGC CAGAACTTGC CAAGAGCGAC TGATATTCTT AGAATCCAC	240
GAGGCAG	247

## (2) INFORMATION FOR SEQ ID NO:406:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 442 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:406:

```
GAATTCGGCC TTCATGGCCT ACAACATCAA AACTCCCAAG CAAATGGATG AATTCATTGA      60
GATCCAAAGT TCAACAGGAA CCTGGTACCA GCGCTGGCTG GTCAGATTCA AGACCATTTT      120
CAAGCAGGTC TGGGATAATG CCCTGTACTG TGTGATGGGG CCCTACAGAA TGAATACACT      180
GATTCTGGCC GTGGTTTGGT TTGCCATGGC ATTCAGTTAC TATGGA CTGA CAGTTTGGTT      240
TCCTGATATG ATCCGCTATT TTCAAGATGA AGAATACAAG TCTAAAATGA AGGTGTTTTT      300
TGGTGAGCAT GTGTACGGCG CCACAATCAA CTTACAGATG GAAAATCAGA TCCACCAACA      360
TGGGCCTCGA CCTGACTTTG CCCCCTTGCC CATCAGCCAT TTGCCATCAC CCCAAACAAC      420
TCAGCTTCGG GGAAGTCTCG AG                                         442
```

(2) INFORMATION FOR SEQ ID NO:407:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 154 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:407:

```
CCGAGTGACC TTCTTGATGC TGGCTGTTTC TCTACCGTT CCCCTGCTTG GAGCCATGAT      60
GCTGCTGGAA TCTCCTATAG ATCCACAGCC TCTCAGCTTC AAAGAACCCC CGCTCTTGCT      120
TGGTGTTCTG CATCCAAATG CGAAGCTCCT CGAG                                         154
```

(2) INFORMATION FOR SEQ ID NO:408:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 146 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:408:

```
GAATTCGGCC TTCATGGCCT AGTTTACTTC TGCTTGATCT TTATTCTTCC TGCTACTAA      60
TTTTGGATTT AGTTTGTCT TTTCTAGACA TTCATTGTTA GATTGTTTAT TTACAATTTT      120
TCTAGTTTTT TTGATGTAGA CATTTA                                         146
```

(2) INFORMATION FOR SEQ ID NO:409:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 285 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:409:

```
GAATTCGGCC TTCATGGCCT AGATGTTGCC AGTTTTCATG GAGGAAGTAG ACATGAAAGC    60
TTGTTTGTAA TGTGTTTGAC AGAGTAGAAA GACATTGAAG AAGGTGATGG TATACATCAC    120
TTGAATATTT TTATTGAAAA GGGAGGGAGG AAATGGAGCG TTAGTTGTAG GACCAGATGA    180
TGTAAGAGA GTTTTTTAAA GTGTACAAAA CAATGGCATG TTGTGATACT AATGAGAAGG    240
AGCCAATAGA GAACAAAAAA TTGATGATGC AGGAGACGAC TCGAG                    285
```

(2) INFORMATION FOR SEQ ID NO:410:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 355 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:410:

```
CTCGAGGGAT CTGGCTTTCT CTGTCTTCTC ATTTACTACA TNACGCTGGT GAATTAATAG    60
ATNTCTCAAC AAAAGGACAT TTAAATCAAC ATATGACACC TGTTTAAATT CTTAAGAAGC    120
CATTAAATAC ACATTCTTAA GAAAATGAGC TATGACACAA CTCTTCTCAC TGTATAACTC    180
CTATCTGTGA TTCTCAATCA GGTGACTTTT CAGCTNCAAG ACGGATCTTT TCTATTCATC    240
TCCTCTGGTT CGGACCAATT AAATGTNTTC TTTTGCAATC ANAACATCTC ANNTGCCAAA    300
TCTTCAAAG CAAAGGAGTT NGTTAGCAAC ATATTAGGCC ATGAAGGCCG AATTC        355
```

(2) INFORMATION FOR SEQ ID NO:411:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 226 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:411:

```
GAATTCTAGA CCTGCCTCTG TATGTTGCTT TAGCCAGGAT TCAGAGCTAA AGTGTAAGTG    60
TGTGCTTCTG CTTTCTGGAT GTATCTCTCA AAATTGCTCT GTCTGTTTAT TCAGCTCCTG    120
GATCTACCTT CTCTTTTCTT TGAATTGGAC ACCATTCTAT TCATTGCTCA CTCAGAACTT    180
CAGCTGTTCT CATGATCACA TGCTTTCTTC CCTGTTTATG TCCAAT                226
```

(2) INFORMATION FOR SEQ ID NO:412:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 218 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:412:

```

GAATTCGGCC TTCATGGCCT AGTCTGCTGC TTAGCTTGTA TTTTCAGTTT AATATATTCG      60
TGATCATTAA CAAAACAGCG AAGTGAATAA TGGGCATAAA TTTTCCTAAG AAGAATCATT      120
TTCCATACTT ATTTTTC AAT ATTATCAAAA AGTATGTAAT TTTGGGGGGT TTTTGGTTT      180
TTTTTTTTTT TGAAACAGAA TCCTGCTCTG TTCTCGAG      218

```

## (2) INFORMATION FOR SEQ ID NO:413:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 260 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:413:

```

GAATTCGGCC TTCATGGCCT ACTTTGAACA ATTCGGCATG AATTGAAACC AGGTTTTCCT      60
GTGGAAAGTT ATAGCTTGAT TGGGAGATAG AAGTTGAATT GAGTTCCTTC TTGCAACTCT      120
TAGTGTATTAT TTTTATATCT CAGTAAGACG AGGATACCTT CAGTTTGAAT CTGCATAATG      180
TTCAC TGCCA AACTCCTTCT CATTTAATGC TTATGGCCTT CACATTCTG TATAATAAAG      240
ATCAATTATC AGCACTCGAG      260

```

## (2) INFORMATION FOR SEQ ID NO:414:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 258 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:414:

```

GAATTCGGCC TTCATGGCCT AAGCATATGA ATTTTGGAGA GACAGACATA CAGACCATAA      60
CAGTTCTATT TTCTATAACT ATAGTAGAAT ATCGAAATGA GAACATTGAC ATTGGTAAAA      120
GGTGTATGTA TAGTTTATAT GTTATCTTAT CAAAAGGGTA GATTACAGA ACCAACACAA      180
GTAAGCTATA GAACTAGCCC ATTACCACAA AGATCTCCCA CAAGCTACAG CTTTACAGTC      240
ATACCCACCC GGCTCGAG      258

```

## (2) INFORMATION FOR SEQ ID NO:415:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 281 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:415:

```

GAGGACCTTT ATAATCTACT ACTAATTACT GTGAAAGTAA ACATTGTTTA ATATACCAGT      60
TCTTAAAGAA ATATTTTGTC TAGTCATTAA TATTCTAGTT CATCTCAAAG CTTCCATTG      120
ACAATTTAAA ATTACTTAAA TTTTAATATT AAAGGAAACA GTTTTCCTGA TTCTCATGAA      180
AGTTCCTATT TGCAC TGAAG ATGACTAAAC CTTT TAGTCA TAGTTT TAGA AGAATTGGCT      240
TTTTTATAGC CATTTTATTT ACATATGGGT ACGGACTCGA G      281

```

## (2) INFORMATION FOR SEQ ID NO:416:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 118 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:416:

GAATTCGGCC TTCATGGCCT ACTCAGAAAA GAAAATGAAA ATACCTCTAC ATGTGGTCTT 60  
 CCTGCTAATC TCTCTGACCT TCCTATTAC CACCCTCCCC ACTGCCCCACT TACTCGAG 118

## (2) INFORMATION FOR SEQ ID NO:417:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 273 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:417:

GCGAGGATGG CATGGACGCT TATCGAGCAG CTCAGGGTG GCAGCTACAA GAAGATTGGC 60  
 TACTATGACA GCACCAAGGA TGATCTTTCC TGGTCCAAAA CAGATAAATG GATTGGAGGG 120  
 TCCCCCCCAG CTGACCAGAC CCTGGTCATC AAGACATTCC GCTTCCTGTC ACAGAAACTC 180  
 TTTATCTCCG TCTCAGTTCT CTCCAGCCTG GGCAATTGTCC TAGCTGTTGT CTGTCTGTCC 240  
 TTTAACATCT ACAACTCACA TGTCCTCTC GAG 273

## (2) INFORMATION FOR SEQ ID NO:418:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 145 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:418:

GAATTCGGCC TTCATGGCCT AAGCAGTTGC TAATGCCAGC AGTACATAAA TTGAGGATGG 60  
 AGCAAAAGGA TCGACACCAC CAATGGCTGC ATTGTGATAG GTGTGGACAG AGCCTGCCAG 120  
 AATTAAACAC ACGCCAGGAC TCGAG 145

## (2) INFORMATION FOR SEQ ID NO:419:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 290 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:419:

GGATTGGGCC	TTCATGGCCT	AGTGTTTATA	ATTAATCCTT	TAATATTATG	GTTATTAACC	60
TCTTAAACAT	GAATGAATTC	TTGATTGTTT	TAACACAGTA	CCTAAGACTA	ATGCTTTCTG	120
TGGACACCAC	TGAGCTCTGC	CTCAACTCCA	CCCTCTGCGA	CCGGAGGACT	ATGCCCTAG	180
TAACTGCTGT	CGGTGTGGAC	GCTGTGCTGG	TTCTGTTTTC	TAAAGGAGCA	GAAGGACAGG	240
TCTCTGAGAC	AGGATCGTTG	TCCCTACAGG	AGGAACAGTG	GCCACTCGAG		290

## (2) INFORMATION FOR SEQ ID NO:420:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 307 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:420:

GCGATTGAAT	TCTAGACCTG	CCTCGAGCCT	CCCAAAGTGC	TGTGATTACA	GGAGTGAGCT	60
GCCACGCCCA	GCCTACAAGT	TTTTCTTTAA	CTACTGCTTT	AGTCAACCAT	ATCCTCTAGC	120
TTCTGATATT	TTCATTGTTT	GTTGTCATTT	TCTAGATATT	CAACAATTTT	AAATTAGATT	180
TTCTCTTCGA	CTAAAGTGGA	AGAATTTTTT	CCCGTTTATT	TTCTACATGC	TAAAGATTTT	240
TATTTTCATT	TTGTTATTAA	TTTCTAGTGT	TACCGTATTG	TCATTAGAAA	ATATGGGCTG	300
GCTCGAG						307

## (2) INFORMATION FOR SEQ ID NO:421:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 301 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:421:

GAATTCTGAA	AATATTAAGA	TTTATCCTAG	CACCTACGTT	CAACATACCA	TAATTTTTAT	60
ACTTCTCCAT	CTAAATAAAA	CCAAGTTTGT	TCCTACACTA	GTCCAGCCTG	CATTCTCAAG	120
AACTCCAGTG	ATTATACATC	AACATCTAGA	GATCAGGTAT	CCCAATCCTT	TCTTCCTATA	180
TCTAAGCTAA	CTCCTTCTTA	GCCAAATGGT	ACCCTTTGAT	TTTGTGTAA	TCCTTTCCTT	240
CCCTCCACTC	TTAACCCTC	TCATTCCATC	TTCTCCCTCC	CTTTCCACC	CCACTCTCGA	300
G						301

## (2) INFORMATION FOR SEQ ID NO:422:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 389 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:422:

GAATTCGGCC	TTCATGGCCT	AGGTTAAAGT	TGTCTGGTAA	TAAGGTGGAG	TGGATTTGGG	60
GCAGGTTTTA	TGTTTGTGTG	CTTCTCTTAG	AAGTCAAAGA	GTTGGTGAGG	TAAGTGCAT	120
CCTGTCTATA	TCAGTGTAGT	GATAATGCAC	TAGTGTAATG	AAGAATGGAG	CTGCACGTGT	180
GAGGTTTTTC	AAGTCCACAA	AGATCAGGTA	TTGTCTACGG	TCAATAAAGA	TTTTTTTAAA	240
AAACCCTCTT	AACTAAAGAG	AGGTAACCTC	CTTTTCAAAA	CTCTGAAATT	TACATGTGCT	300
GACTTATAAT	ATGTGTGATC	CTCGCTGCTT	TTCTGATCCC	TGGTGGTTGG	GGTGTGTGTG	360
TGTGTGTGTC	TGTGTGATGG	GCTCTCGAG				389

## (2) INFORMATION FOR SEQ ID NO:423:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 326 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:423:

GAATTCGGCC	TTCATGGCCT	AATCTTAAGT	GTTTTACATG	CTCTACCTGC	CGGAATCGCC	60
TGGTCCCGGG	AGATCGGTTT	CACTACATCA	ATGGCAGTTT	ATTTTGTGAA	CATGATAGAC	120
CTACAGCTCT	CATCAATGGC	CATTGAATT	CACTTCAGAG	CAATCCACTA	CTGCCAGACC	180
AGAAGGTCTG	CTAAAAGGTC	AGAGTAATGC	AGAATGCGTG	CCTTCATCTC	AGATTTGTTC	240
ATCACAGGTG	GATCCCATGT	GTCTTCAGTA	GACAAGTCAC	CTTTGTAGCT	AGCACCAGTG	300
CCAGCTCCAT	GCCATTGCAC	CTCGAG				326

## (2) INFORMATION FOR SEQ ID NO:424:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 178 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:424:

GCGATTGAAT	TCTAGACCTG	CCTCGAGCCA	ATCATTTTTA	AATCTAATCT	GAACTTTAAC	60
TGGTTAGTTG	AGTGCATTTT	TATGTGTACT	GATGTATTTG	CATTTATTCC	TTACCACCTT	120
ATTTTGTGCT	TTTTATGTTT	TTTCTTCCA	CTCTTTTTTT	TTCTTTTGA	ATCTCGAG	178

## (2) INFORMATION FOR SEQ ID NO:425:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 127 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:425:

GAATTCGGCC	TTCATGTACA	TAGATCTTCC	TAGTGTCAAT	GACAAAGGTG	ACATTTGCAA	60
GGCTTTTTCT	TCATCAGATG	CAGGATCTG	GACTTCATGT	GTATCCTTTT	ATCCACTCCT	120
CCTCGAG						127



## (2) INFORMATION FOR SEQ ID NO:426:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 325 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:426:

```
GAATTCGGCC TTCATGGCCT AGAATTAAAT TGCAGAAAAT TATTCATATT CTTATAATCC      60
TTTAAATGTC TATAGGATTT ATGATGATAT CTCCCCTTCC ATCCTGATTT TTTCAAGTTT      120
TTGTTTTTTC TTTTCTTA TAAATCTGG TAAATGTTTA TTAATTTTAT TCATTTTAA      180
AAAGAACCAG CTTTGGTTT CATAAGTTT TATAATTTT TTGTTTCAC TTTCATTAAT      240
TCTACTCTT ATTATTCCT TCATTTGTT TACTTTGGGT TTGTTTGCC ATTTTTTCC      300
TAGTTTCTTA AGGTGCCAGC TCGAG                                     325
```

## (2) INFORMATION FOR SEQ ID NO:427:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 223 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:427:

```
GAATTCGGCC TTCATGGCCT AGGCACACAG GCGGGCAGC AACATAAACG GCACCCATTA      60
AAAAGCAAGA CTCGCTCTTG AGACTAAAGG AGAAGTTACC TAAATTTCTG TATAAACTCA      120
GTAATTCATT CACTTACTA GTATTACATT TATGAAATTC ACCTTTGTGG AAAAAGGAGC      180
GGGAGAGGGA TAAGAAATG CCTGTTTCTA GAAACGCTC GAG                                     223
```

## (2) INFORMATION FOR SEQ ID NO:428:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 277 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:428:

```
GAATTCGGCC TTCATGGCCT AAATTCATAC AGAAGACCTT ATTGTGATAA AGTTCAACGG      60
TATAGGTAAC CAACAACAAA AAAACTATCA ACCATAATTT TTTCACCCTA CCAACATTCT      120
CTGAACCTTT CAGTAATATT TTATACACAT GTGCATATTC TGCCTTTTTC ATTTACTATA      180
TCATAAACTT CTTTCTAGAT CATTATTTT CTGCTGCATT TTTCAGGAT TTATCACCTT      240
TATTTTGTAG TTAGTTTTT GTGAGTGTAC TCTCGAG                                     277
```

## (2) INFORMATION FOR SEQ ID NO:429:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 317 base pairs
  - (B) TYPE: nucleic acid

(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:429:

AAATGAGCCC	TATCACTGAG	AAATACGTGT	TTCATGATTT	AACTCTGTGT	GTGTGTGTGT	60
GTGTATTTTT	TTTTTGTTG	TCTTCAGCTG	ACAGTATGAA	AAATGAAACT	GCTGAAAAAG	120
CTGAGCACCT	GGTCACCCTT	GGCCTTCCAT	TGCTTTGGCC	TTCAGTAAAA	AGCAGCCTCC	180
CTTCTAGGTC	AGGGAACCAT	GCCATTGAGA	CTAGTAACGG	GCGTTCTGGG	CACAGTCCCA	240
CTGTGCACAG	GTTTGAGAGG	ACAAGTTCAT	CAGAAGGAAG	GCAGTCCTTA	GAAGTCACAT	300
ACGTTGAGCC	CCTCGAG					317

(2) INFORMATION FOR SEQ ID NO:430:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 271 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:430:

GAATTCGGCC	TTCATGGCCT	ACATTCAGAA	AACAGAAAAG	TTTCAAGAAG	CAGGAAGAAA	60
AGACTCACCT	ATGATCCCAA	CACCCAGAGG	TAATAATTTA	CCATTTTGG	TGTATCTTCT	120
TTGTCTTTTC	CTATGTGTG	CCTTATGTAG	ATATGTAACA	GGTTGTGGTT	TAAACCGAAG	180
CTATACCCAT	TGTTTGGAGT	CAGGCAGGTG	CGATAAATTT	GTAGGTGGCT	CACCAGAAAT	240
CTATTGTCAT	GATGAACCTA	CAGGACTCGA	G			271

(2) INFORMATION FOR SEQ ID NO:431:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 349 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:431:

GAATCATTTT	TGGTCACCAA	TCTCTCATAT	ACCACTACTG	GATATTTACA	ACATGCTTCA	60
GTGGAGGAGA	AGACACTGCT	GCTTTGCAAA	GATGACCTGG	AATGCCAAAA	GGTCTCTGTT	120
CCGCACTCAT	CTTATTGGAG	TACTTTCTCT	AGTGTTTCTT	TTTGCTATGT	TTTTGTTTTT	180
CAATCATCAT	GACTGGCTGC	CAGGCAGAGC	TGGATTCAAA	GAAAACCCTG	TGACATACAC	240
TTTCCGAGGA	TTTCGGTCAA	CAAAAAGTGA	GACAAACCAC	AGCTCCCTTC	GGAACATTTG	300
GAAAGAAACA	GTCCCTCAAA	CCCTGAGGCC	TCAAACAGCA	ACTCTCGAG		349

(2) INFORMATION FOR SEQ ID NO:432:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 261 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:432:

```
GAATTCGGCC TTCATGGCCT ACCTGGATTT CTCAATTTAT TAAGTTGTAC TTACCTGATG      60
CTGATGATGA TTACTGTATT TACACATTGT CTCAGAGCTC ACTCTGCGG AGGTTGTGGC      120
CTCGAAAATG CCTTGTGTGC CCTCTGGAAT CTGTCTTTTC AGCTTCATCT CCTCCTCCTC      180
ACCTCCTGCT GTGGTGCACA GATACCTATA GGCAGGCTCC ATCTCCTCCT CCCCAGCTCC      240
TCCCCTAGTG CACACCTCGA G                                     261
```

(2) INFORMATION FOR SEQ ID NO:433:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 212 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:433:

```
GAATTCTAGA CCTGCCTCGA GTCCTACGGG AAACCTCCAG GGTTTtagga AGCTGACGAT      60
GCAAGTTTAT CCAAATGGGA ATGATAATAA TCATGTTTAT TATCCTGGGG TGCTTCTCC      120
ATAGCAAGTA CTCACTTAGG TCCTGTTTAT TAGTCAGTCT TTTAATCTGT ACTGAAATAG      180
GTGCTGTCGC ATCCATGGGG AATGAACTCG AG                                     212
```

(2) INFORMATION FOR SEQ ID NO:434:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 293 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:434:

```
GGTTGCAGTG AGCTGAGATC GCACCACTGC ACTCCAGCCT GGGCAACAGA GTGAGACTTC      60
ATCTCCAAAA AAAAAAAAAA AAAAAAAGA CAACCACAAC AAAAACGAAA CACCACCACC      120
AAAAAAGTTT ACTGGTAGAG TCTCCTCTAG ATTGTTTTCT TTTCAATACT TGTTTCATAT      180
TCTCCAATG CCCTCGTCCC ATAATGTTGG CTGTGCTTTT CTTTGTGCTT ACAGCTCATT      240
GCTGGGATGG ATATGGTGAG TTTTCATGTA CATTGACCAA ATACAATCTC GAG                                     293
```

(2) INFORMATION FOR SEQ ID NO:435:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 358 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:435:

```
GAATTCGGCC TTCATGGCCT AGGCTTGAAA GGAAATGAGG GAAATTCAG TGAGTTTGAG      60
```

GAATGGCAGA	CTGGGTATGT	GACAAATGAG	TGGGTAAATA	AGGAAATCTC	AGATTGAGAA	120
TCCTGGCAGA	TCTTTCAATG	GGTTAGACTG	CAGGAATATT	GATTTTAAAG	CCAGACTGAA	180
GCAAATTCTA	GTGATAAAGG	AAGGGGAAAG	GGTGGCTGAA	TCAAATGTTC	TACCAATACT	240
CCTTTTTTTA	GTATTTGAGT	TAAAATTGAG	ATTANATGCT	TGGCTTAGAA	GAATGCAAAG	300
CTTCACTGAG	CCTAATAATA	TGGATCCCAG	TGGGTGAGTG	GAGGTGAGTT	CACTCGAG	358

## (2) INFORMATION FOR SEQ ID NO:436:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 258 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:436:

GCTCGAGAGA	GCTTTTTTTT	TTTTTTTAA	ACATTGTATC	ATTAATTTAT	CACGTGTATC	60
CAAGCTCCTT	TGAGTTTCCC	TGCCCCCATC	CCTGTGTCAT	TCCAGCCATA	TCCAGCTACT	120
CCTTCCATGC	TTCCCCCATT	CTTGTTTCTG	ACTCTATTAC	TCCCAGTCCA	AATCTTGCTC	180
TTCACGTGCT	GCACCTTGTC	CTCTCCTCTC	TCTCAAAAAA	TCTACCCAAA	TTCCACCCCT	240
CTTCACAGGC	CCCTCGAG					258

## (2) INFORMATION FOR SEQ ID NO:437:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 299 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:437:

CAAGCCGGCC	ATATTAGAGA	GATGGAAATA	AAGCTTCCTT	AATGTTGTAT	ATGTCCTTTGA	60
AGTACATCCG	TGCATTTTTT	TTTAGCATCC	AACCATTCCT	CCCTTGTTAGT	TCTCGCCCCC	120
TCAAATCACC	CTCTCCCGTA	GCCCACCCGA	CTAACATCTC	AGTCTCTGAA	AATGCACAGA	180
GATGCCTGGC	TACCTCGCCC	TGCCTTCAGC	CTCACGGGGC	TCAGTCTCTT	TTTTCTTTTG	240
GTGCCACCAG	GACGGAGCAT	GGAGGTCACA	GTACCTGCCA	CCCTCAACGT	CCACTCGAG	299

## (2) INFORMATION FOR SEQ ID NO:438:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 238 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:438:

GAATTCCTAC	TAAATAATAT	TAAGCAGGAA	TTTTTTAGGT	GTGCTTTTTT	AGCTCCTTTT	60
TATCAGTTCT	GGGAAGCAAA	CAGTGCTGCA	TCTCCTTTGC	TCTCATAGAA	TTCTGTAATT	120
TTTATACCAC	AGGTCTCTGC	TAAAAGGCGG	CATGTGTTTA	GAAATTCTAA	AAATGAGGGC	180
TCTGAACCTT	GTAACGTGCC	TGATACGTTT	TCCCTTTTTT	AATCCCAACC	CCCTCGAG	238

## (2) INFORMATION FOR SEQ ID NO:439:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 229 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:439:

```
GAATTCGGCC TTCATGGCCT ACAACTTGCA CTTGCTCCA GCATCACTGG CCTCCTGCTG      60
TTATTTAGGT ATACTAGGCA TTTCCTGTTT TAGGGCCTTT GTACCTCCAG TTCCCTCTGT      120
TTGGAATGCT TTCCCCAGA TAGCCCTGTG GTTAAATCTC TTACTTCCTT TGGGTCTGTG      180
CTCAGATGTT ACTTCTCAG AGGGTCCCCC AAGCCCCCAT GCACTCGAG                    229
```

## (2) INFORMATION FOR SEQ ID NO:440:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 284 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:440:

```
GAATTCGGCC TTCATGGCCT AGAGTCTATT AACTATTTT CTGTTATACC CTGCCAGAAA      60
AGAATTTTAA AAGTTAGTTT ATGTTTGTG TAACCATGTT CTTCAGAATG CAGGTATGTG      120
AGCATCATGG TTTCTGGGTA ATTCTGCTGC TCCTGTCTTT GAAAATGGAG ATACCACTTG      180
CAGCTTATCC CACTGCTGAG TATTCCAGCA TTGGTAGTGG TTTCACTCCA TTGCATCCAT      240
CCAGAACTTT CACACAGGCC TCCCCATTAC CCAGCATCCT CGAG                    284
```

## (2) INFORMATION FOR SEQ ID NO:441:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 282 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:441:

```
GAATTCGGCC TTCATGGCCT AATAAAATAA AAATTGGAAG AATGGCATT TATTACAGTA      60
TAGTTAAGAG ATTGGCTAAG GCAGTAAATA AACTTAGAA ATGCTCAAAT TTATTGTAAG      120
TTGCTTTTAT AATCATTGAT ATATAAGCA TGCTACTGCT AATCAATTAG TTTTATGTAT      180
TAAGACCTAT CAGCATGTCT TTTTTTAGT ATCTGGTTGA CTTAAACATG ATGTCTCTG      240
TACCATTTAA CATTTTCAAG ACATATTCTC CCCAACTCG AG                    282
```

## (2) INFORMATION FOR SEQ ID NO:442:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 241 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:442:

GAATTCGGCC TTCATGGCCT ACTCACCTGC AATCTATTGT TTATATTGTT GCTATGTATC	60
TCTATTCTTT CTGCATCAAA TAATGAATAG CTCATTTTGT GTTGCCTTCA AGTATGACAA	120
ATTCCTTTCC AAATGTGATT CCAGACAGTA TATCCAAACA TGTCTTTCTT TTCCCATTCC	180
TGATCATCCT ACATGTCAAG CACTGCCAAC GTTTACTCAA GAAAGCTTGG TTAGAACCCA	240
G	241

(2) INFORMATION FOR SEQ ID NO:443:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 249 base pairs
- (E) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:443:

GCAAGCACAA ATCTAACCAT GAGCTTCAGC AATCAGCTCA ATACAGTGCA CAATCAGGCC	60
AGTGTCTTAG CTTCCAGTTC TACTGCAGCA GCTGCTACTC TTTCTCTGGC TAATTCAGAT	120
GTCTCACTAC TAAACTACCA GTCAGCTTGG TACCCATCAT CTGCTGCACC AGTTCCTGGA	180
GTTGCCCGAG AGGGTGTTTC CTTGCAGCCT GGAACCAACC AGATTTGCAC TCAGACAGAT	240
CCTCTCGAG	249

(2) INFORMATION FOR SEQ ID NO:444:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 225 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:444:

GAATTCGGCC TTCATGGCCT AGGGATTTTT TTTCTTTTTT TTCCTCATAT GTGAAGTAAT	60
AGTCTCTTCA CAACAGAAGA AGCCACAAAA CTAAACTTAT TGGTCACTGA ATTTTCTTCA	120
AGGTTACGTA CCTCTTTGGT ATTTTAAATC TAGATTATGT TGATTTTAT ATTTTGTTC	180
TCATTTTCT ATTTCTTTGT TTTCTTACT GCAAATGGGC TCGAG	225

(2) INFORMATION FOR SEQ ID NO:445:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 248 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:445:

```

GAATTCGGCC TTCATGGCCT AGTTTTGGAG AGCTCTACCT ACTAGCTGGT TATTTCTTAC      60
ATTAAATTAA TACCTTTAAA AAGTATTATG AAAATAACAC ACTCAGTAAA AGAAATTTTA      120
AAAAACAAAT GCAATAAAAA TGTGTTTCTT TTCAACCTTT GACTTGTCAC TTCCTCCAGC      180
TTTTCCCTTA TTAACTGTG AGAGGTATTG TCTATTAGCA GTTACTTATC CCCTTCCTCA      240
AACTCGAG                                         248

```

## (2) INFORMATION FOR SEQ ID NO:446:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 256 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:446:

```

GGATTGAATT CTAGACCTGC CTCGAGCGAC CTCTAGAATC CTACATTTGA AATATTCTGG      60
CAGTGAGGTG TTCATCCTAA CTCAGTCAGG TAGCTGTGGA CAGCCTTCAC CTGTTAGGAG      120
CTCCTTAGAA ATAAATTCTG AATACCTTTG GTTTTCTTTT ATCCTCCAGA GGAATTTCCA      180
CTATCTCGA AGCTGTTCTT TGTTCACCTG ACAATTCGCT TAGTTAATGT TCTTTTTTAG      240
CCTGTACTAT CTCGAG                                         256

```

## (2) INFORMATION FOR SEQ ID NO:447:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 250 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:447:

```

GAAGGCAAGA AAATCTATGG AAAGAGAAGG CTACGAGTCC TCGGGCAATG ATGACTACAG      60
GGGTAGTTAC AACACCGTGC TCTCACAGCC TTTATTTGAA AAGCAGGACA GAGAAGGTCC      120
AGCCTCCACG GGAAGCAAAC TCACCATTCG GGAACATCTG TACCCCGCGC CTTTCATCACC      180
TGAGAAAGAA CAGCTGCTGG ACCGCAGACC CACTGAATGT ATGATGTCGC GATCAGTAGA      240
TCACCTCGAG                                         250

```

## (2) INFORMATION FOR SEQ ID NO:448:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 198 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:448:

```

GAATTCGGCC TTCATGGCCT AGCTGGGGGG AATAGGTTAT GTGATAAGGA GTCAGTCGGA      60
CAGAGTGGGG TGAAAGATGT TCAGACAGGG AAACACACAT GCAANAGAGG GAAGGTGGGA      120
CACAGCATAT GCNTCCAACA TTTGGTAGGG CCGAGGCCCC ACATGGGAGC AGTGAGAGGT      180
TAGGGATCGA CGCTCGAG                                         198

```

## (2) INFORMATION FOR SEQ ID NO:449:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 163 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:449:

```
GAATTTTCCT TACCAGGAAA ATTCATGCTT TACAATTTGT CAGAGGTGCA CATTACTAAT    60
TACAATAGGT CACACTTTT CTATGCGCTT CATTATAATA TTGGCAACTT TATTATGCCC    120
CATTACATAC TGTATTATGC TCTTACTTTA TATGCATTTT GAG                      163
```

## (2) INFORMATION FOR SEQ ID NO:450:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 122 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:450:

```
GAATTGCTGA TATCTTATAA AGGGGACCTT TTTTCTTTAC ATTTCTGACG GTTTTTATCA    60
GAATGTATGT ATTAATGCTA TTTGTCTTTG TATATTTATT TTATTTCAG CCACCTCTCG    120
AG                                  122
```

## (2) INFORMATION FOR SEQ ID NO:451:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 302 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:451:

```
GAATTCGGCC TTCATAGCCT AACTCAAGAT CTCCCATCTA TTAAAGCAGA GGAATAACTT    60
TTGTAGGCTT AATACTGCTT TCTCACTTAG GAAAAGTTGA AATTAAGAAC ACACAGGAAG    120
GGATCATTTC CTAAGGTTTA TGTCCCTCAAC ATCAAATTGA GTTGAAACTT GACTACAGGC    180
CATCTGCTCA TTCAAAGCAT TACAATAAAT CTGTCTTATT GATGATCAAA ATGAGAGCTG    240
AATTGGATGC AGGATTGGAC ATTGCAAGCT GTTCTCCCAA GTGGGATGGA AAGGTGCTCG    300
AG                                  302
```

## (2) INFORMATION FOR SEQ ID NO:452:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 265 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear



(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:452:

```
GAATTCGGCC TTCATGGCCT AAAAAAATAT TTATTGACT GAATGATTTA ATATGCAGTT      60
ATGGTGTTTA ATATATCATG TGTTATTTGT TTGTTTAAAT ACAGACATAA CCCACAGTTA      120
TCTTGAACAA GAAACTACGG GGATAAATAA AAGTACGCAG CCAGATGAGC AACTGACTAT      180
GAATTCTGAG AAAAGTATGC ATCGGAAATC CACTGAATTA GTTAATGAAA TAACATGTGA      240
GAACACAGAA TGGCCCGGAC TCGAG                                           265
```

(2) INFORMATION FOR SEQ ID NO:453:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 234 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:453:

```
GAATTCGGCC TTCATGGCCT ACTTTAATTT CTCTGAGCAG TATTTTACAG TTTTGATGTA      60
TAAACCTGGC ACAGATTATG TTCAGTTTAT TTCTAAGTTT AAGTCATGTT TTTGAATGTT      120
ATATTAAAGG ATATTTTCTT TTTTAAAAAA TCTACAATGT TTATTTTATT ATTATTATTT      180
TTAATCTCGC TTCATACCA AGGCTGGAGT AAAGTGACGC GACCTCAGCT CGAG           234
```

(2) INFORMATION FOR SEQ ID NO:454:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 388 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:454:

```
GAATTCGGCC TTCATGGCCT ACGCACATCC GCAGTCAGCC ACCTCGCGCG CGCCTCCAGG      60
AGCAAGGATG GAGAGGCTGG TGATCAGGAT GCCCTTCTGT CATCTGTCTA CCTACAGCCT      120
GGTTTGGGTC ATGGCAGCAG TGGTGCTGTG CACAGCACAA GTGCAAGTGG TGACCCAGGA      180
TGAAAGAGAG CAGCTGTACA CACCTGCTTC CTTAAATGTC TCTCTGCAA ATGCCCAGGA      240
AGCCCTCATT GTGACATGGC AGAAAAAGAA AGCTGTAAGC CCAGAAAACA TGGTCACCTT      300
CAGCGAGAAC CATGGGGTGG TGATCCAGCC TGCCTATAAG GACAAGATAA ACATTACCCA      360
GCTGGGACTC CAAAACTCAA CCCTCGAG                                           388
```

(2) INFORMATION FOR SEQ ID NO:455:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 317 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:455:

```

GAATTCGGCC TTCATGGCCT AGCTGATATT ATTTCTGAGT TTTTGCTTAT TTGCTTTCTA    60
CATAGAATCA ATAAAATTGA CAACTAGCAT TGCCTATATA TGCAGGTGTG ATACTATTCA    120
GGGTACTAGT ATATTGGCCA CTCATTATGA AACTTTCAGG TCCTCATATA TTTTCTTTTA    180
TTACAATGAT CTACTTATTT CTGATAAATA TTGGATTCAT AGAGGCTAAA GGGCTGGGAA    240
AGGAAAACAT TCGTGACTAC TTACAACCAT TTGATACGAG TTGTGTCAAT ACAGACCTCA    300
CACAGCAGCA CCTCGAG                                         317

```

## (2) INFORMATION FOR SEQ ID NO:456:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 256 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:456:

```

GAATTCGGCC TTCATGGCCC ACAAATGGT AATACAAATA AACCCTACT TACTGCTTTT    60
AATGGTAGTT TGTTTTTTTT TTTTGTAGAC AGAGTCTCGC TGTGTGCGCC AGGCTGGAGT    120
GCAGTGGCGC GATCTTGGCT CACTGCAAGC TCGCCTTTC GGGTTCACAC CATTTTCCTG    180
CCTCAGCCTC CCGAGTAGCT GGGACTGCAG GCGCCCGACT CCCGGGTTC CACCATTCTC    240
CTCCCTCAGA CTCGAG                                         256

```

## (2) INFORMATION FOR SEQ ID NO:457:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 434 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:457:

```

GAATTCGGCC TTCATGGCCT AGGAGAATCG TGAGACCTCT ATTTCCATAT CTTTTCTAC    60
TACTGGAATT TTTATTTTAA CCATACCCAT AAATTACTTT CTATTTTAAG AAGCAAATAT    120
ATAATTCCTC AGTTTAGTAA AAAGTTCTCA CTTGAAAAGC TGGTATATGA ACTTTAGAGG    180
GCAGATTAAT CAACTGCTAA ATATTATTAA TCCTTCTTCT TGGAACTTTC CAACACAAAA    240
GACAGTTTAT AGAAAACAAA GTCAGTGTTC AAAACAGCTG AATGAACTAT CTTTGTATAT    300
TTTATTTGTT TTTGTTTGT TTTGTTTGT TGAGACAGAG TCTTGCTCTG TTGTCCAGGC    360
TGGAGAGTAA TGGCACGATG ACTGCAACCT CTGCCTCCCG GGCTCAAGTG ATTCTCCTGC    420
CTCAGTCTCT CGAG                                         434

```

## (2) INFORMATION FOR SEQ ID NO:458:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 339 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:458:

```

GAATTCGGCT TCATGGACGA GGAGATCGTG TCCGAGAAGC AAGCCGAGGA GAGCCACCGG    60

```

CAGGACAGCG	CCAACCTGCT	CATCTTCATC	CTGCTGCTCA	CCCTCACCAT	TCTCACAATC	120
TGGCTCTTCA	AGCACCGCCG	GGCCCGCTTC	CTGCACGAAA	CCGGCCTGGC	TATGATTTAT	180
GGTCTTTTGG	TGGGCCTTGT	GCTTCGGTAT	GGCATTATG	TCCGAGTGA	TGTAAATAAT	240
GTGACCCTGA	GCTGTGAAGT	GCAGTCAAGT	CCAACCTACCT	TACTGGTAAA	TGTTAGTGGA	300
AAATTTTATG	AGTATATGCT	GAAAGGAGAG	ATACTCGAG			339

## (2) INFORMATION FOR SEQ ID NO:459:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 256 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:459:

GAATTCGGCC	TTCATGGCCT	ACTTATTTTT	GTTTCTGTGT	GTTTGTTTTA	AATGTGTGTG	60
CGCTCATGTG	AGTTTGAAGG	GAGTTAGATG	CAACAGCAGG	AGCTGTGCTC	AGGGCAGTGG	120
TGTTAATTAT	GGAGGGCGTG	GGAAGGGCTG	GGAAGAGGAG	GGGGTTGTAA	GACTCCCCTT	180
TTCCCTCGCA	TGTAAACAGA	TGCTGGTGAC	TGAAAGTCTG	TCTGCGGTTA	TTGGCAAGAG	240
TGACGGAAAG	CTCGAG					256

## (2) INFORMATION FOR SEQ ID NO:460:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 320 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:460:

GAATTCGGCC	TTCATGGCCT	AATTGAAAA	TTCATAAGTT	TCTACCAATA	CTTCCAATTT	60
CAATCCAACA	TCTGAGGATC	TCCCTAGATT	TCCTATTTCC	ATGATTATAA	CTCTTGTAAC	120
AGATGATAAG	AAACATGGAT	CTGACTATAC	TCAATTTATT	CACATATTTT	CTCAGTGAAC	180
TAACTTATTT	GCTGAATATA	ACCAGTCCCC	AGCCTTCCAA	CTGCCTCTCT	CACTTGCCAC	240
CTCTGCATCT	TCCCCCACTG	TCTTCCTCAG	CAATCAGACT	GCCTCTTGCC	AAGTCATCAC	300
CACAGCACCC	CACTCTCGAG					320

## (2) INFORMATION FOR SEQ ID NO:461:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 307 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:461:

GAATTCGGCC	TTCATGGCCT	ACCCTCTACT	ATTTTTGAAC	CAAATCAACA	ACAACCTATT	60
TAGCTGTGCC	CCAACCTTTT	CCTCCGACCC	CCTAACAACC	CCCCCTCTAA	TACTAACTAC	120
CTGACTCCTA	CCCCTCACAA	TCATGGCAAG	CCAACGCCAC	TTATCCAGTG	AACCACTATC	180
ACGAAAAAAA	CTCTACCTCT	CTATACTAAT	CTCCCTACAA	ATCTCCTTAA	TTATAACATT	240

CACAGCCACA GAACTAATCA TATTTTATAT CTTCTTCGAA ACCACACTTA TCCCCACCCA 300  
TCTCGAG 307

## (2) INFORMATION FOR SEQ ID NO:462:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 254 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:462:

GAATTCGGCC TTCATGGCCT AGTACAATTT AATATAATTT CTTACAAGTT TATTACCTAA 60  
AACTTTGCAA ATAATTGAAG TTAGAAGCTT TGGATTTTGT TTTTAGAGCT TAATCCTTTT 120  
CTGTAAGTGG AAATCCTTTC CACTGGTTTA TTTTCCTTTT GATTTTATTT TACTTTGACA 180  
CCCTAAAGGT TTAGTGTTC TGTTTTAA TCTACTGATC GTTCTTATG AGATTCTTA 240  
GAGTACCCCT CGAG 254

## (2) INFORMATION FOR SEQ ID NO:463:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 283 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:463:

GAATTCTAGA CTGCCTCGA GAGGACGCCG GAGAGAAATG AGTAGCAACA AAGAGCAGCG 60  
GTCAGCAGTG TTCGTGATCC TCTTTGCCCT CATCACCATC CTCATCCTCT ACAGCTCCAA 120  
CAGTGCCAAT GAGGTCTTCC ATTACGGCTC CTTGCGGGGC CGTAGCCGCC GACCTGTCAA 180  
CCTCAAGAAG TGGAGCATCA CTGACGGCTA TGTCCCCATT CTCGGCAACA AGGTAGCGCA 240  
GCTGCTTTGG GGAGCTCCTC CTTACTGCCC AGCAAAACTC GAG 283

## (2) INFORMATION FOR SEQ ID NO:464:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 233 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:464:

GAATTCGGCC TTCATGGCCT AAAAAGTGGT TCCTATTTTC CTGGTTGAAC CTGAGTGAT 60  
ACACCCAGTA TTGTACCACC CAATTAGTAG ACATTATTTT TTCTTAGGTC ATATTATTCT 120  
CAGCTTATAG AGCAAGAAGT TGAAGCTTAA AGGGTTAGAT TACTTGCCCA AGGTAATACA 180  
GCAAGAATCT TATTTTCATCC AACCTAGAGT GAATATTTCC CCCACATCTC GAG 233

## (2) INFORMATION FOR SEQ ID NO:465:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 497 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:465:

```

GAATTCGGCC TTCATGGCCT ACTGATGTTG AAGACGACAC CACGGCTTTG ATGGAATATC      60
AGATATTGAA AATGTCTCTC TGCCTGTTCA TCCTTCTGTT TCTCACACCT GGTATTTTAT      120
GCATTGTGCC TCTCCAATGT ATATGCACAG AGAGGCACAG GCATGTGGAC TGTTCAGGCA      180
GAAACTTGTC TACATTACCA TCTGGACTGC AAGAGAATAT TATACATTTA AACCTGTCTT      240
ATAACCACTT TACTGATCTG CATAACCAGT TAACCCAATA TACCAATCTG AGGACCCTGG      300
ACATTTCAAA CAACAGGCTT GAAAGCCTGC CTGCTCACTT ACCTCGGTCT CTGTGGAACA      360
TGTCTGCTGC TAACAACAAC ATTAACTTC TTGACAAATC TGATACTGCT TATCAGTGGA      420
ATCTTAAATA TCTGGATGTT TCTAAGAACA TGCTGGAAAA GGTGTCTCTC ATTAAAAATA      480
CACTAAGAAG TCTCGAG                                     497

```

(2) INFORMATION FOR SEQ ID NO:466:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 267 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:466:

```

GAATTCGGCC TTCATGGCCT AGCCCCGACT AGCTTTGCCC TAACTCCTTC ATCAAAAAGAC      60
CCCCCGCCAG CTTCCACACAC CTCATACGCA GCCACATCTG CCCTATTCTC CATGCTTTCC      120
AGCTTGCCCTG CCCTTCCTCA TCTCTCCCTG CCTGTGCAGA CCTCCACCCT TCTTTCCTCC      180
ACCCCTCCAT CCCCCAATGC TTGTAGACCT TCCATTCACT CCGTCTCATC GTGCGTGGTC      240
TCTGATCGTC CATCACCTGA CCTCGAG                                     267

```

(2) INFORMATION FOR SEQ ID NO:467:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 152 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:467:

```

GTTTACATAA ATATTATACT AGCATTACC ATCTCACTTC TAGGAATACT AGTATATCGC      60
TCACACCTCA TATCCTCCCT ACTATGCCTA GAAGGAATAA TACTATCGCT GTTCATTATA      120
GCTACTCTCA TAACCCTCAA CACCACTCG AG                                     152

```

(2) INFORMATION FOR SEQ ID NO:468:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 198 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:468:

CAATATTTCA AGCTATACCA AGCATACAAT CAACTCCAAG CTCGGAATTT TAACTTCATG	60
GCAAACAGAA AAGCTAGACT GAGTTATCAG TGTGTGAGA GGAATATTTG GCCCAACAAG	120
AGTTGTTGGG GTGGGAGGAG GGAGAGACAA AAGGAAAGGA CTGCCAGCTC TCAGAGGGTG	180
GAGATGGGGG ACCTCGAG	198

(2) INFORMATION FOR SEQ ID NO:469:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 288 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:469:

GAATTCGGCC TTCATGGCCT ACTGCTATAT TCAAGTTTCT CCCACTACTG TGGTTTCTTT	60
TTTTTTTTTT TTTTTTTTTT TTTTGAGACA GGTCTTGCT CTGTCACCCA GGCTGGGGTG	120
CAGTGGTGCG ATCTCGGCTC ACTGCAAATT ACACCTCCTG GATTTCGAGC ATTCTCATGC	180
CTCAGCTTCC TGAGTAGCTG GGATAACAGG TATGCACCAC CACCCCTGGC TAATTTTTGT	240
GTTTTTAGTA GAGACAAGTT CTCACCATGT TGTCCAAGCC ACCTCGAG	288

(2) INFORMATION FOR SEQ ID NO:470:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 326 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:470:

GAATTCGGCC TTCATGGCCT AAAAGAAGAA TACTAATTAG AATTTGAGTT CTAGGGGTTT	60
TTCCTAGGTT TTTCAATTCTA GACTTAGCTT TTATTCAAAC CTGTTGATCC TGCATAGGGG	120
TAGTCTAGCT TTAAAAAATA AAACAATAAA CATAAATGAG CCTATTGAGT TCAATCAGAG	180
TAGGGAGCAG TTTTATTGAA CAGCACATTT TCAAATCTT CAGTTGTGTT TTGTTTTTCA	240
GCTACGTGTC TCTCTGTGAT AATGAAAAGA CAGGTTGCAA AGCCCGGGAA CTAAATCAG	300
TTTATGTGGA TGCAGTAGGA CTCGAG	326

(2) INFORMATION FOR SEQ ID NO:471:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 326 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:471:

```

GAATTCGGCC TTCATGGCCT AGTGTAAGT GTTTTTCAC AGTGCCCA AATTTCAGT      60
ATTTAATGGT CCTTCCTCCT TATTTATTTT TATTACTTGT TTTGTTTTT TTGAGACAGT    120
GTCTTGCTCT GTCGCCAGG CTGGAGAGCA GTGATATTAT CGTGACTCAC GGCAGCCTCG    180
ACCTCCAGCA CTCAGGTGAT CCCTTCACCT CAGCCTCCCA GGCAGCTGGG ACCATAGCTA    240
TGAACAAACA CGTCCAGCTA TGTTCGTAT TTTTGTGAA GACGGAGTCT CACCATGTTG    300
CCCAGGCTGA TCTCCAACCT CTCGAG                                         326

```

## (2) INFORMATION FOR SEQ ID NO:472:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 254 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:472:

```

GGAAAGGTGT TGTCCCTTGT AACATTTTGG TTGGCTATAA AGCTGTATAT CGTTTGTGCT    60
TTGGTTTGGC TATGTTCTAT CTTCTCTCT CTTACTAAT GATCAAAGTG AAGAGTAGCA    120
GTGATCCTAG AGCTGCAGTG CACAATGGAT TTTGGTTCTT TAAATTTGCT GCAGCAATTG    180
CAATTATTAT TGGGGCATTG TTCATTCCAG AAGGAACCTT TACAACCTGTG TGGTTTATG    240
TAGGCAACCT CGAG                                                         254

```

## (2) INFORMATION FOR SEQ ID NO:473:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 286 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:473:

```

GAATTCGGCC TTCATGGCCT ACAGAAATCT AATTCCTGGT GCTATTGCA ACTACATATA    60
TTTAAAATAC AAGGAGATAA ATACCCAGAA CACATTAAGC CTACTGATTT AAACAGAACA    120
TTTCAAGACT GCTACACAGA AAGGGAAGGA AGCTGTTAAC CCAGCACAGC AGCACACCTC    180
ACATATTTAC GTCTCAGAGA TTAAATGGAA AGAAAGGATC AATCAAAACC TTTAATGCTC    240
AGTTTTCACA AACACAGTCA AGTCTATCAA ATTTCCAGAT TTACAG                     286

```

## (2) INFORMATION FOR SEQ ID NO:474:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 380 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:474:

```

GAATTCGGCC TTCATGGCCT ACAATTAAAA GGTTCTGTTA AATTACGTCT TTCAGTCTGA    60
AATTACTCTG AGAATTTACT TAAAATTTT CCATTTAAAA ACAGGTATAA AATTAATTGC    120
TAGTTTCCAT AATCACCCAG TATAAAGATA GAAAAGACCT GTAAGACAAC TGTGTGGTTA    180

```

AATACATGAT AACACATTTA CGTGCCTTTT ATAGAAATCC ACTTATTATG TACATACTGG	240
CTTGTTTTTT TTCCCACTTC TCCAGTACAC TATTTTCAGGC ACAGGCTCAA AATTTGAACC	300
CAAATGGTCT GTTAGGTCTC TTGACTTTTT CAGTTCAAAG CTCTGCTAAT CTGCTAAACC	360
TAGCCCCAAA CCCACTCGAG	380

## (2) INFORMATION FOR SEQ ID NO:475:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 254 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:475:

GAATTCTAGA CCTGCCCGGA GCCCTGACCT AGTCCGGCGT GGAGAGAGGA ATGGAAAGCA	60
GTGTCCCTTT TGAGAAGGCA AATTACAGC TGGCTTTGT AATCCTAGCT ATTTTGTGT	120
TGTTTGCTAA GTCTTTGATA GTCCCACTG TGGTTTGTCT GCCAGTGATC TCAGCACCAC	180
CAGAGAGCTT GTTAGAAATG CGGCATCCCA ACCCCACCAC AGCCCTCCCA AGTCAGATAC	240
TCCCCCTCT CGAG	254

## (2) INFORMATION FOR SEQ ID NO:476:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 389 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:476:

GAATTCGCTG TGGAGCTGGG CGTGTGTTT GTCCGGCCCC GGCCCGGAAC CGGGCTGGGT	60
AGAGTGATGC GGACCCTCCT GCTGGTGCTG TGGCTGGCGA CGCGCGGAAG CGCGCTCTAC	120
TTTCACATCG GAGAGACGGA GAAGAAGTGC TTTATTGAGG AGATCCCGGA CGAGACCATG	180
GTCATAGGAA ACTACCGGAC GCAGCTGTAT GACAAGCAGC GGGAGGAGTA CCAGCCGGCC	240
ACCCCGGGGC TTGGCATGTT TGTGGAGGTG AAGGACCCAG AGGACAAGGT CATCCTGGCC	300
CGGCAGTATG GTTCCGAGGG CAGGTTCACT TTCANTTCCC ATACCCNTGT GTGAGCACCA	360
GATCTGTTTT CANTCCAATT CCACTCGAG	389

## (2) INFORMATION FOR SEQ ID NO:477:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 431 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:477:

GAATTCGGCC TTCATGGCCT AGAAGGAAAT AAAGGCCCGG ATTTCTGGAG TTCTGAGCCT	60
ACTTTTTTTG GGTGCATTTT GAAACATACG GATTTTACCG CTAGTATATT CAGTGAGGAA	120
GGAAGGCTTC TGAAGGATTG ATGATCCCA AACTGGATTA TGTGTTTATG ATAATGGTGT	180
ATTTGGTGGC CTAGCATAGT GAGGTGAGGT AGGTCTTTAA AATGGCTCAT TATAACATC	240



```

ATTGTTCTG AGCTCACTTG CCCTTGCATC TCCTGCCAGA GTGCTTTGTA CATAGTAGGC      300
CCTCATCAAT GCTTGTAGAT TTAAATTTCG GAGGCACACT TGAAGACAA TGGTGGCTGG      360
TAAATTAATT ATCAGGGTTA GCAACTTCAT TTCTGCTNAC GCTTAAAAAG TGCTGCGCGA      420
GGAAACTCGA G                                     431

```

## (2) INFORMATION FOR SEQ ID NO:478:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 426 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:478:

```

GCCTCTGNTT TTAATTCATT GGCAACTGTT ACGATGGAAG ACCTGATTCT ACCTTGGTTC      60
CCTGAGTTCT CTGAAGCCCG GGCCATCATG CTTTCCAGAG GCCTTGCCTT TGGCTATGGG      120
CTGCTTTGTC TAGGAATGGC CTATATTTC TCCAGATGG GACCTGTGCT GCAGGCAGCA      180
ATCAGCATCT TTGGCATGGT TGGGGGACCG CTGCTGGGAC TCTTCTGCCT TGGAAATGTT      240
TTTCCATGTG CTAACCTCC TGGTGCTGTT GTGGGCCTGT TGGCTGGGCT CGTCATGGCC      300
TTCTGGATTG GCATCGGGAG CATCGTGACC AGCATGGGCT TCAGCATGCC ACCCTCTCCC      360
TCTAATGGGT CCAGCTTCTC CTGCCCACC AATCTAACCG TTGCCACTGT GACCACACTT      420
CTCGAG                                     426

```

## (2) INFORMATION FOR SEQ ID NO:479:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 325 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:479:

```

GAATTCGGCC TTCATGGCCT AAATTTTCAG GCAGTTTGAA GTATCTGGCA GAAAAAGTAA      60
ATTGAAATCA TTGGGACGTT GATTTTAA TACCTAGAA GCAATCCCAA TGCTTTATGT      120
AATACTAAAA TTTCTCCTCT CTCTTTCTT TATCTCTCTC TCCCCTGAAA ATAATCATT      180
TTTTTCCAGT GCCAGTTCAG ATCTTGCAA CAGTTGTTT GAAAAAGTAC CTGAACAAAA      240
TACATTTTAT AAAGTAAAGT ATTCAGGAAC TGACAGAACT GGAGAAGAAT ATATTTATGT      300
TACAGAAGTC ATGGACAACC TCGAG                                     325

```

## (2) INFORMATION FOR SEQ ID NO:480:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 406 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:480:

```

GGCAAGTAAC AGGTTGCAAG AATTGGAGGC AGAGCAACAG CAGATCCAAG AAGAAAGAGA      60
ATTACTGTCC AGACAAAAGG AAGCTATGAA AGCAGAGGCA GGCCAGTTG AACACAATT      120

```

ACTACAGGAG	ACAGACAAAT	TAATGAAGGA	AAAAGTAGAA	GTACAATGTC	AAGCTGAAAA	180
AGTACGTGAT	GACCTTCAAA	AACAAGTGAA	AGCTCTAGAA	ATAGATGTGG	AAGAACAAGT	240
CAGTAGGTTT	ATAGAGCTGG	AACAAGAAAA	AAATACTGAA	CTAATGGATT	TAAGACAGCA	300
AAACCAAGCA	TTGGAAAAGC	AGTTAGAAAA	AATGAGAAAA	TTTTTAGATG	AGCAAGCCAT	360
TGACAGAGAA	CATGAGAGAG	ATGTATTCCA	ACAGGAAATA	CTCGAG		406

## (2) INFORMATION FOR SEQ ID NO:481:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 357 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:481:

GAATTCGGCC	AAAGAGGCCT	AGTCGGTGCC	TCATTGGTAT	AAATGTTATG	TCTGCATGGG	60
TTTTTCTAC	AATTCTTTT	TAAGATTATT	TCTCCCCAAA	GCTCAGCACT	TTTGGAATTT	120
TTCATTCTCA	TCCAAAAATG	GAAGCAATTT	TATGTAAATG	TCTCTGGAA	GCAGTGTGG	180
AATTCATATT	TTGGGTAGCA	GAAGCAGTAG	TTACAAGGGT	AGTGGTGTCT	TTTGTGGTGG	240
TGGTGGCACC	TGCTGCAGTT	GTTTATATTT	GGGTGTCAGG	AGTAGGGAGG	GATGATCAG	300
TTGGAGAATT	TACAGGGAAA	AATGGAGGTC	CAGGTGGATA	GGGTCTAGAA	TTCAATC	357

## (2) INFORMATION FOR SEQ ID NO:482:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 303 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:482:

GAATTCGGCC	AAAGAGGCCT	AAGTGACTCC	AGAGCCTCCT	GCAAGATGCT	GTTGATTCTG	60
CTGTCACTGG	CCTTGCTGGC	CCTGAGCTCA	GCTCAGAACT	TAAATGAAGA	TGTCAGCCAG	120
GAAGAATCTC	CCTCCCTAAT	AGCAGGAAAT	CCACAAGGAG	CACCCCAACA	AGGAGGCAAC	180
AAACCTCAAG	GTCCCCCATC	TCCTCCAGGA	AAGCCACAAG	GACCACCCCC	ACAAGGAGGC	240
AACCAGCCTC	AAGGTCCCCC	ACCTCCTCCA	GAAAAACCAC	AAGGACCACC	CCCTATTCTC	300
GAG						303

## (2) INFORMATION FOR SEQ ID NO:483:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 469 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:483:

GAATTCGGCC	AAAGAGGCCT	AAGCAGACAC	AATGGTAAGA	ATGGTGCCTG	TCCTGCTGTC	60
TCTGCTGCTG	CTTCTGGGTC	CTGCTGTCCC	CCAGGAGAAC	CAAGATGGTC	GTTACTCTCT	120
GACCTATATC	TACACTGGGC	TGTCCAAGCA	TGTTGAAGAC	GTCCCCCGCT	TTCAGGCCCT	180

TGGCTCACTC	AATGACCTCC	AGTTCTTTAG	ATACAACAGT	AAAGACAGGA	AGTCTCAGCC	240
CATGGGACTC	TGGAGACAGG	TGGAAGGAAT	GGAGGATTGG	AAGCAGGACA	GCCAACTTCA	300
GAAGGCCAGG	GAGGACATCT	TTATGGAGAC	CCTGAAAGAC	ATCGTGGAGT	ATTACACGGA	360
CAGTAACGGG	TCTCACGTAT	TGCAGGGAAG	GTTTGGTTGT	GAGATCGAGA	ATAACAGAAG	420
CAGCGGAGCA	TTCTGGAAAT	ATTACTATGA	TGGAAAGGAC	AAACTCGAG		469

## (2) INFORMATION FOR SEQ ID NO:484:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 516 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:484:

GAATTCGGCC	AAAGAGGCCT	ACTACTTCTG	TAGTCTCATC	TTGAGTAAAA	GAGAACCCAG	60
CCAACATATGA	AGTTCCTTGT	CTTTGCCTTC	ATCTTGGCTC	TCATGGTTTC	CATGATTGGA	120
GCTGATTCAT	CTGAAGAGTA	TGGGTATGGC	CCTTATCAGC	CAGTTCAGAG	ACAACCACTA	180
TACCCACAAC	CATACCAACC	ACAATACCAA	CCTGCCTCAA	GGTCCTCCAC	CTCCTCCAGG	240
AAAGCCACAA	GGACCACCCC	CACAAGGAGG	CAACAAACCT	CAAGGTCCCC	CACCTCCAGG	300
AAAGCCACAA	CGACCACCCC	CACAAGGAGG	CAGCAAGTCC	CGAAGTTCTC	GATCTCCTCC	360
AGGAAAGCCA	CAAGGACCAC	CCCCACAAGG	AGGCAACAAA	CCTCAAGGTC	CCCCACCTCC	420
AGGAAAGCCA	CAAGGACCAC	CCCCACAAGG	AGGCAGCAAG	TCCCGAAGTG	CCCGATCTCC	480
TCCAGGAAAG	CCACAAGGAC	CATCCACAA	CTCGAG			516

## (2) INFORMATION FOR SEQ ID NO:485:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 357 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:485:

GAATTCGGCC	AAAGAGGCCT	ACTTCACTTC	AGCTTCACTG	ACTTCTTGAC	TCTCCTCTTG	60
AGTAAAAGGA	CTCAGCCAAC	TATGAAGTTT	TTTGTCTTTG	CTTTAGTCTT	GGCTCTCATG	120
ATTTCATGA	TTAGCGCTGA	TTCACATGAA	AAGAGACATC	ATGGGTATAG	AAGAAAATTTC	180
CATGAAAAGC	ATCATTACAC	TCGAGAAATT	CCATTTTATG	GGGACTGTGG	ATCAAATTAT	240
CTATATGACA	ATTGATATCC	TTAGTAATCA	TGGGCGCATG	TTATAGAGGT	TTGACTGGCA	300
AATTCACTTT	TACTCATTTA	TTCTCATTCA	TCACACCGCA	AGTCTAGGCC	TCTCGAG	357

## (2) INFORMATION FOR SEQ ID NO:486:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 643 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:486:

```

GGTTACCATC CTCAAAGGAT TGGCTAAAAG CAAGCAACTG GATTGAACAC CCTAAGAAGA      60
AAGATTCACA CTGCACCAGG AGACATCAGA AAGAATGAAA ACTCTGCCGC TGTGTGTGTG      120
CATCTGTGCA CTGAGTGCTT GCTTCTCGTT CAGTGAAGGT CGAGAAAGGG ATCATGAACT      180
ACGTCACAGG AAGGCATCAT CACCAATCAC CCAAATCTCA CTTTGAATTA CCACATTATC      240
CTGGACTGCT AGCTCACCAG AAGCCGTTCA TTAGAAAGTC CTATAAATGT CTGCACAAAC      300
GCTGTTAGGC CTAAGCTTCC ACCTTCACCT AATAACCCCC CCAAATTCCC AAATCCTCAC      360
CAGCCACCTA AACATCCAGA TAAAAATAGC AGTGTGGTCA ACCCTACCTT AGTGGCTACA      420
ACCCAAATTC CATCTGTGAC TTTCCCATCA GCTTCCACCA AAATTACTAC CCTTCCAAAT      480
GTGACTTTTC TTCCCCAGAA TGCCACCACC ATATCTTCAA GAGAAAATGT TAACACAAGC      540
TCTTGTGTAG CTACATTAGC ACCCAGTGAA TTCCCCAGCT CCACAAGACA CCACAGCTGC      600
CCCACCACA CCTTCTGCAA CTACACCAGC TCCACCCCTC GAG                          643

```

## (2) INFORMATION FOR SEQ ID NO:487:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 335 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:487: \*

```

GAATTCGGCC AAAGAGGCCT ACAAGATGCT GCTGGTCCTG CTCTCAGTGG TCCTTCTGGC      60
TCTGAGCTCA GCTCAGAGCA CAGATAATGA TGTGAACAT GAAGACTTTA CTTTCACCAT      120
ACCAGATGTA GAGGACTCAA GTCAGAGACC AGATCAGGGA CCCCAGAGAC CTCCTCCTGA      180
AGGACTCCTA CCTAGACCCC CTGGTGATAG TGGTAACCAA GATGATGGTC CTCAGCAGAG      240
ACCACCAAAA CCAGGAGGCC ATCACCGCCA TCCTCCCCCA CCTCCTTTTC AAAATCAGCA      300
ACGACCACCC CAACGAGGAC ACCGTTTCATC TCGAG                          335

```

## (2) INFORMATION FOR SEQ ID NO:488:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 323 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:488:

```

GAATTCGGCC AAAGAGGCCT AGACACATTG CCTTCTGTTT TCTCCAGCAT GCGCTTGCTC      60
CAGCTCCTGT TCAGGGCCAG CCCTGCCACC CTGCTCCTGG TTCTCTGCCT GCAGTTGGGG      120
GCCAACAAAG CTCAGGACAA CACTCGGAAG ATCATAATAA AGAATTTTGA CATTCCCAAG      180
TCAGTACGTC CAAATGACGA AGTCACTGCA GTGCTTGCGT TTCAAACAGA ATTGAAAGAA      240
TGCATGGTGG TTAAACTTA CCTCATTAGC AGCATCCCTT CTACAAGGTG CATTTAACTA      300
TAAGTATAAC TGCCAACCTC GAG                          323

```

## (2) INFORMATION FOR SEQ ID NO:489:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 128 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:489:

```

GAATTCGGCC AAAGAGGCCT AGTGACACCA GAGCCTCCTG CAAGATGCTT CTGATTCTGC      60
TGTCAGTGGC CCTGCTGGCC TTCAGCTCAG CTCAGGATTT AAATGAAGAT GTCAGCCAGG      120
AAGATGTT                                     128

```

## (2) INFORMATION FOR SEQ ID NO:490:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 366 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:490:

```

GAATTCGGCC AAAGAGGCCT AATTTTGACC AGCAGATTAA TCAACTGTAA GACGGATCCT      60
CACACAAAGA GGCAACTGAA AGGATGAAAT CACTGACTTG GATCTTGGGC CTTTGGGCTC      120
TTGCAGCGTG TTTCACACCT GGTGAGAGTC AAAGAGGCCC CAGGGGACCA TATCCACCTG      180
GACCGCTGGC TCCTCCTCAA CCTTTTGGCC CAGGATTGT TCCACCACCT CCTCCTCCAC      240
CCTATGGTCC AGGGAGAATC CCACCTCCTC CTCTGCAGAG AAAACCTTTG AAGAAAAGCA      300
GGAACAGAGA TCGATGGCGA TCTATTTCCC TGTACTATAC TGGAGAGAAA GGTCAAATC      360
GTCGAG                                     366

```

## (2) INFORMATION FOR SEQ ID NO:491:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 296 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:491:

```

GGTTTCCCGT TTGTCCCTCC TTCAAGGTTT TTTTCAGCAG CTGCAGCACC CGCTGCCCCA      60
CCTATTGCAG CTGAGCCTGC TGCAGCTGCA CCTCTTACAG CCACACCTGT AGCAGCTGAG      120
CCTGCTGCAG GGGCCCCTGT TGCAGCTGAG CCTCCTGCAG AGGCACCTGT TGGAGCTGAG      180
CCTGCTGCAG AGGCACCTGT TGCAGCTGAG CCTGCTGCAG AGGCACCTGT TGGAGTGGAG      240
CCAGCTGCAG AGGAACCTTC ACCAGCTGAG CCTGCTACAG CCAAGCCTAG GCCTCT      296

```

## (2) INFORMATION FOR SEQ ID NO:492:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 535 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:492:

```

CTCGAGTCCT TGTGGCTTTC CTGGAGGTGG GGGACCTTGA GGTTTGTGTC CTCCTTGTGG      60
GGGTGGTCCT TGTGGCTTTC CTGGAGGAGG TGAAGGACCT TGAGGCTGGT TGCCTCCTTG      120

```

TGGGGGTGGT	CCTTGTGGCT	TTCCTGGAGG	AGATCGGGGA	CTTCGGGGAC	TTGTCTCCTT	180
GTGGGGGTGG	TCCTTGTGGC	TTTCCTGGAG	GTGGGGGACC	TTGAGGTTTG	TTGCCTCCTT	240
GTGGGGGTGG	TCCTTGTGGC	TTTCCTGGAG	GAGGTGGGGG	ACCTTGAGGC	TGGTTGCCTC	300
CTTGTGGGGG	TGGTCCTTGT	GGCTTTCCTG	GAGGAGATGG	GGGACCTTGA	GGTTTGTTCG	360
CTCCTTGTGG	GGGTGCTCCT	TGTGGATTTC	CTGCTATTAG	GGAGGGAGAT	TCTTCCTGGC	420
TGACATCTTC	ATTTAAGTTC	TGAGCTGAGC	TCAGGGCCAG	CAGGGCCACT	GACAGCAGAA	480
TCAACAGCAT	CTTGCAGGAG	GCTCTGGAGT	CACTTAGGCC	TCTTTGGCCG	AATTC	535

## (2) INFORMATION FOR SEQ ID NO:493:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 321 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:493:

GAATTCGGCC	AAAGAGGCCT	AGTCGGTAAT	CACAACAAAC	ACGGAGCAAT	CTCAATGCTG	60
TTTATCCGGA	GGACAGTCTG	CGGGGTCGTG	ACGATTCTTT	TCTTCTTGAA	GTTTTTCCTT	120
TTCTGAATC	TCATAATGAT	TCTTGCCAT	GATTCTGTCT	TTTCAATGAC	TGTGGCTTCT	180
ACTCGAACAA	GATCCTTTCC	GAGGAGTGGC	TTGCCAAGCA	GCGTGAAGTT	GTCTGCCCCA	240
ACCAGCAGGA	CCTTCTCCAG	TCGAATTCTC	TCTCCACACG	CAAGGTCTAG	TTCATTTCGA	300
ATTAAGATCA	GGTCTTCAGA	G				321

## (2) INFORMATION FOR SEQ ID NO:494:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 361 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:494:

GAATTCGGCC	AAAGAGGCCT	AACCTGCCTT	GGTTCCTGCT	CCTCTTTCCA	CGTTGGATAA	60
CAATTTTTTG	GTTGTTTTGT	TTAAGTTGGT	GCTCTGAAGC	TTAATCTCAG	TACCCTTTAC	120
TCTGAATTGT	CAAATTTTGA	TAAAACGTGC	CATTTTCTTT	GGTAAGAGAA	AGCAGGTCTT	180
AATGTCTGCC	AGAACACAAT	TTATATGCCT	TATTGGCTTC	ATTAACTTT	TAGAAAACTT	240
TAGCATTTGT	TACTTTTTTC	CATTGCATTT	ACTTTCAAAT	GCACCTAATG	AATTCGTCAC	300
CCAGTCGCAA	CTTTTCCTT	CTCTGTCCCA	TTGCTTTCTC	CTTTCCCAA	CGCAGCTCGA	360
G						361

## (2) INFORMATION FOR SEQ ID NO:495:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 435 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:495:

```

GAATTCGGCC AAAGAGGCCT AAAGCGACCA AGATAAAAGT GGACAGAAGA ATAAGCGAGA      60
CTTTTATACC ATGAAACAGT CTCCTGCCCT CGCTCCGAA GAGCGCTACC GCAAAGCCGG      120
GTCCCCAAG CCGGTCTTGA GAGCTGATGA CAATAACATG GGCAATGGCT GCTCTCAGAA      180
GCTGGCGACT GCTAACCTCC TCCGTTCCCT ATTGCTGGTC CTGATTCCAT GTATCTGTGC      240
TCTCGTTCTC TTGCTGGTGA TCCTGCTTTC CTATGTTGGA ACATTACAAA AGGTCTATTT      300
TAAATCAAAT GGGAGTGAAC CTTTGGTCAC TGATGGTGAA ATCCAAGGGT CCGATGTTAT      360
TCTTACAAAT ACAATTTATA ACCAGAGCAC TGTGGTGTCT ACTGCACATC CCGACCAACT      420
AGGCCTCTTT GGCCG                                     435

```

## (2) INFORMATION FOR SEQ ID NO:496:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 122 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:496:

```

GAATTCGGCC AAAGAGGCCT AGAAATATAT TTTCTAGTGA ATTCTTATTG GAAGCCAGGT      60
CTTCCTCTC ATTAGATCAA AAGGGACTTA TGTACATACA ACAATTGAAA GTGTTACTCG      120
AG                                     122

```

## (2) INFORMATION FOR SEQ ID NO:497:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 260 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:497:

```

GAATTCGGCC AAAGAGGCCT AAGAAAATCA GCCTGTCTGC TCTCTCCTTG GCTCAACAAG      60
GCCTCTAACA GTCTTCTGTC CTCTATTCTG CACACGGCAT ATTTGGGAAC GAGAAACAAA      120
AGTTTTCCCA AATGAAGAGA ACTCACTTGT TTATTGTGGG GATTTATTTT CTGTCCTCTT      180
GCAGGGCAGA AGAGGGGCTT AATTTCCCA CATATGATGG GAAGGACCGA GTGGTAAGTC      240
TTTCCGAGAA GACCCTCGAG                                     260

```

## (2) INFORMATION FOR SEQ ID NO:498:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 48 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:498:

```

GAAAGAGGCC TACCAACATG CCAGAGGCCG TACCCATATC CGCAGCAG      48

```

## (2) INFORMATION FOR SEQ ID NO:499:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 276 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:499:

```
GAATTCGGCC TTCATGGCCT ACCCTGTCAA AATTTTGCCT CCTCTTGATT TTCAATATAT      60
ATATATTTT TTGTCTTACT CTGTTGCCCA GGCTAGAGTG CAGTGACGTG ACCTTGGCTC      120
ACTGCAACCT CTGCCTCCTG GGCTCAAGCA ATCCTCCCAC CTCAGCCTCC TCAGTAGCTG      180
GGACCACAGG CATATGCTAC AAAGCCCAGA TTATTTT TTTT ATAGAAACAG GGTTCACCA      240
TGTGCCCAG GCTTGTCTCG AACCCAGAA CTCGAG      276
```

(2) INFORMATION FOR SEQ ID NO:500:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 301 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:500:

```
GAATTCGGCC TTCATGGCCT ACAAATGCC ATCAAAGACT GGATAAAGAA AATGTAGTAT      60
ATATATATAT ACCATGGAAT ACTGTGCAGC CATAAAAAAG GAATGAGATC ATGTGTTTCA      120
CAGGGATGTG GATGAAGCTG GAAGCCATCA TCCCCAGCAG ACTAACACAG GAACAGAAAA      180
CCAAACACTG CATGTTCTCA CTCATAAGTG GGAGCTGAAC AATGAGAACA GGTGGGCACA      240
GGGACGGGAA CAACACACAC CAGGGCCTGT TGTGTGGTGG GGGTGAGGGT TGGAACTCGA      300
G      301
```

(2) INFORMATION FOR SEQ ID NO:501:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 400 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:501:

```
GCGAGGCAGG GAAACTCACT TCACGTCTCT TTCCTTGTAG AGCATCATGC TTATTCTTGG      60
CTCACTCACA TCTTTGTCTC GGGAGTTCTC TGCCGAGCCA TTGCCCCCTA CAGCAGAGAG      120
CACAGCTGGC TGCACTAGTG CTGAAGGAGC CAGCCCCAGA GCAGGGCATT TCCAGGGGCT      180
CTTGTCCTAG AGCGGCAGGC GTTGTGTGCA GAGAACGCCC CTCCCACGCA GCACAGAGAA      240
CGCGGGGTGG GTGTGTGGCT CCGGGCCTGT GGGGCTTAGG CTGCCTGAAC CACCGCCGAC      300
TGGCACCATG ACTCGGCATT CCTGGAAGTG CCTTACCAAG TTGTGTGTGT TGTTTTGTG      360
TTTTTTAAGA GACGGGCTTG CTCTATCATC CAGGCTCGAG      400
```

(2) INFORMATION FOR SEQ ID NO:502:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 286 base pairs



(B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:502:

GAGATAAACA AAATTGATTG CCCCATCTCT TCACTTCCCC ATCTTGCTCTT CCTAGACCCC	60
ACAGAGTTAA AACTTGGGAT TCCCCTGGCC CCCCAGAAC ACTTGATATAT TGTTTGTGTTG	120
AGGTTCTGTC CGCAGTAACA GACACAGTAT TTAATTGCAC ATACAGATGT TTGCTGGGTA	180
TATTCAGTGT AAATTTTATT TAATCTGTTT TTTTGTGTTGT TTGGGGGTTA TTTGGGGGGA	240
GGTTGGTTTT GTTTTAAAT ATAAAAAAA AAATCTGTCA CTCGAG	286

(2) INFORMATION FOR SEQ ID NO:503:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 279 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:503:

GGCCTCACCT TACCCAGGA CTCCGCTATG ACACCGCCTC TGCCCTACA AGACACAGAT	60
CTCTCGTCAG CCTCAAAGCC TGTGGCTGCA GCCACGCCTG TGTCAGCA GGCTGAAGAG	120
GGCCTCACCT TACCCAGGA CTCCGCTATG ACAGCACCTC TGCCTCTGCA AGACACAGGC	180
CCCACCTCAG GTCCAGAGCC TCTGGCTGTG GCCACCCCTC AAACCTTGCA GGCAGAAGCA	240
GGCTGTGCCC CAGGGACAGA GCCTGTGGCC ATACTCGAG	279

(2) INFORMATION FOR SEQ ID NO:504:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 306 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:504:

GCAATGGCAG GAATTCGAAA TATTGGCATA TGGTTCTTTT GGATTAGATT ATATAAAATC	60
AGAAGAGGTA GAACCAGGCC CCAAGCACTC CTTTTCTCT GCATGATACT TCTGCTTATT	120
GTCTTCACA CTAGCTACAT GATTTATAGT CTTGCTCCCC AATATGTTAT GTATGGAAGC	180
CAAAATTACT TAATAGAGAC TAATATAACT TCTGATAATC ATAAAGGCAA TTCAACCCCTT	240
TCTGTGCCAA AGAGATGTGA TGCAGAAGCT CCTGAAGATC AGTGTAAGT TACCCGGACG	300
CTCGAG	306

(2) INFORMATION FOR SEQ ID NO:505:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 361 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:505:

```

GAATTCGGCC TTCATGGCCT AAGGAGAATG GCGTGACCCC GGGAGGCGGA GCTTGCA GTG      60
AGCCAACATC ACGCCACTGC ACTCCAGCCC GGGCGACTGA GCGAGACTCT CTCTCNA AAA      120
AAAAAAAAAA AAAGAAAAAG AAAAAGAAAA AGAAAAAGAA AAGAAAATAT ATANATACAC      180
ACAGAGAGTG AGAGAGAGAG AGAGAGAGAG ACCAGAAAAA GAGAGAAAGGA GAAAGAGAGA      240
ATGCAAAAAC CAAGAGGANA GAATGATCCA CTCTCCA ACT AGAAAGGTAG CTCTCAATCT      300
GAAAAGTCAC TTGATTACTT TGTCTATTTT GCTTATCTGC TACATCAATG GTTCCCTCGA      360
G

```

(2) INFORMATION FOR SEQ ID NO:506:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 304 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:506:

```

GAATTCGGCC TTCATGGCCT AGGCCTTTTC TTTTAAAGG AATTCAAGCA GGATACGTTT      60
TTCTGTTGGG CATTGACTAG ATTGTTTGCA AAAGTTTCGC ATCAAAAACA ACAACAACAA      120
AAACCAAAC AACTCTCCTT GATCTATACT TTGAGAATTG TTGATTTCTT TTTTATTTC      180
TGACTTTTAA AAACAACTTT TTTTCCACT TTTTAAAAA ATGCACTACT GTGTGCTGAG      240
CGCTTTTCTG ATCCTGCATC TGGTCACGGT CGCGCTCAGC CTGTCTACCC GCAGCACACT      300
CGAG

```

(2) INFORMATION FOR SEQ ID NO:507:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 273 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:507:

```

GGGGCTGCGG GGATTGACCT CCTCACTTCT GGGTTGCCAC TCGAAGCTTG CTCCGGGCAA      60
CGACCTTGCT GCTTCCAGAG GGGAACTGT AGCCACAGAG CCAGGAGAGA AGCCAAAGCA      120
CCTGTCCAC GTCCACATCA CCCAGGCTT CTAGCCCCCA GGGGCTTCAT CAGTGCTTCA      180
GCGCTCTCTC CCATCCCCCA CTCCCATGT CCCTCGTGAT CCGAACTCCT AGGGCTCCGT      240
GTCCACAGG TCACCACTTC CGGCTGTCTC GAG

```

(2) INFORMATION FOR SEQ ID NO:508:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 287 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:508:

```

GAATTCGGCC TTCATGGCCT ACATCAATAA AATACATTCT ACACAGAATA CGCCAACCAT    60
ACACTACTCT TTTTGATAA TAAAAAATGT ATTTACTGAG CCAGTTGTGG TGGCTCGCGC    120
CTATAATCCC AGCACCTTGG AAGGCCAATG GGAGTGGATC GGTGAGGCC AGGAGTTTGA    180
GACCGGCCTG GCCAACATGG TGGAATGCCG TCTCTACTGA GAATGCAGAA ATGAGCCGGG    240
CACGGTGGCA CGCACCTGTA GTCCAGGTA CTCCGATTCC TCTCGAG                    287

```

## (2) INFORMATION FOR SEQ ID NO:509:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 248 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:509:

```

AAGAGGCGAT GGCGGCGATG GCATCTCTCG GCGCCCTGGC GCTGCTCCTG CTGTCCAGCC    60
TCTCCCGCTG CTCAGCCGAG GCCTGCCTGG AGCCCCAGAT CACCCTTCC TACTACACCA    120
CTTCTGACGC TGTCAATTCC ACTGAGACCG TCTTCATTGT GGAGATCTCC CTGACATGCA    180
AGAACAGGGT CCAGAACATG GCTCTCTATG CTGACGTCGG TGAAAAACAA TTCCCTTGTC    240
CACTCGAG                    248

```

## (2) INFORMATION FOR SEQ ID NO:510:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 397 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:510:

```

GGCGATGATT AGGCCAGACC CTCCCCATCC TCGTGAGGGC CAGAAGCTGT TGCTACACTG    60
TGAGGGTCGC GGCAATCCAG TCCCCAGCA GTACCTATGG GAGAAGGAGG GCAGTGTGCC    120
ACCCCTGAAG ATGACCCAGG AGAGTGCCCT GATCTTCCCT TTCCTCAACA AGAGTGACAG    180
TGGCACCTAC GGCTGCACAG CCACCAGCAA CATGGGCAGC TACAAGGCCT ACTACACCCT    240
CAATGTTAAT GACCCAGTC CGGTGCCCTC CTCCTCCAGC ACCTACCAGC CCATCATCGG    300
TGGGATCGTG GCTTTCATTG TCTTCCTGCT GCTCATCATG CTCATCTTCC TCGGCCACTA    360
CTTGATCCGG CACAAAGGAA CCTACCCTAC ACTCGAG                    397

```

## (2) INFORMATION FOR SEQ ID NO:511:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 290 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:511:

GCCTGCCTCC	AGGCCTTTGC	TCCCCTGTT	GCCTCCACTT	AGAATAACAT	TCCACCCCAT	60
CTCTATAAAT	ATCCTACAGA	CAAATACTAC	CTTCCCCTTA	AGGCCAGTTC	TAACCCTAAC	120
TGACAACAAA	TCATCTCTAC	ATGATCTTTT	CCTTCTGGGA	ATGCCTGCAG	CACTGTTTAA	180
TCCTGCCCCA	CCACCATCCC	CTCACCAGC	ACCCTCTCCC	AGACCAGACA	GGGTGGCTCA	240
TGCTTGCAAT	CCCAGCACCT	TGGGAGGCTG	AGGCAGGAGG	ATTGCTCGAG		290

## (2) INFORMATION FOR SEQ ID NO:512:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 304 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:512:

GAATTCGGCC	TTCATGGCCT	ACTATGCCGT	CATGATAGAG	AAGATGATCC	TGAGAGACCT	60
GTGCCGTTTC	ATGTTTGTCT	ACGTCGTCTT	CTTGTTGGGG	TTTTCCACAG	CGGTGGTGAC	120
GCTGATTGAA	GACGGGAAGA	ATGACTCCCT	GCCGTCTGAG	TCCACGTCGC	ACAGGTGGCG	180
GGGGCCTGCC	TGCAGGCCCC	CCGATAGCTC	CTACAACAGC	CTGTACTCCA	CCTGCCTGGA	240
GCTGTTCAAG	TTCACCATCG	GCATGGGCGA	CCTGGAGTTC	ACTGAGAACC	ATGAACCTCT	300
CGAG						304

## (2) INFORMATION FOR SEQ ID NO:513:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 314 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:513:

GAATTCGGCC	TTCATGGCCT	AGGAACCTGG	ACCGCGGCGG	CGCCGGGTTT	CCCTCATGAT	60
CCCGGGCGGG	CGGCGGCGGC	GGCAGAGGCG	GCGGGAGGAT	GACCTCTTAC	CGGGAGCGGA	120
GTGCCGACCT	GGCCCGTTTC	TACACTGTCA	CCGAGCCCCA	GCGACACCCG	AGGGGGCTACA	180
CAGTATATAA	GGTCACCGCC	CGGGTTGTTT	CACGAAGAAA	TCCAGAGGAT	GTCCAGGAGG	240
GAGAATCCTG	AACCAACCTA	TCCATGAACA	TACTCTCTGC	CATTTTCTTA	GTCTTTTCTT	300
CGGAAAAACT	CGAG					314

## (2) INFORMATION FOR SEQ ID NO:514:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 529 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:514:

GAATTCGGCC	TTCATGGCCT	ACGAACTTAA	GAAAAATGAGA	CTGAGCAATC	TCATGGTTCT	60
TGGACAGTTA	GTCTATGGCC	AATTGATGGA	ACCAGTAAAT	CGAGAGAACT	TTACGCAGAC	120
CTTGCCCCAA	ATGCCAATTC	ATTCTCATGC	ACAGCCCCCA	GATGCCAGGG	AAGAGGATAT	180

CATACTTGAA	GGTCAACAGA	GCCTGCCATC	CCAGGCTTCA	GATTGGAGCC	GATACTCAAG	240
CAGCTTACTG	GAATCCGTCT	CTGTTCTCTG	AACACTAAAT	GAGGCTGTTG	TAATGACTCC	300
ATTTTCATCG	GAACCTCAAG	GAATTTCAAG	ACAGACCCTC	CTGGAGCTGT	CCAAAGGAAA	360
GCCCTCCCCG	CATCCCAGAG	CCTGGTTTGT	GTCTCTTGAT	GGAAAGCCAG	TTGCACAAGT	420
GAGGCACTCC	TTTATAGACC	TGAAAAAGGG	CAAGAGAACC	CAGAGCAATG	ACACCACTCT	480
GGACTCTGGG	GTGGACATGA	ATGAGCTTCA	CTCAAGTAGA	AAGCTCGAG		529

## (2) INFORMATION FOR SEQ ID NO:515:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 352 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:515:

GGAGATGAAA	GTAAAAGTG	AAAACCTTAA	AGAGGAGCCT	CAGTCTTCTG	AAGAAGAATC	60
TATGTTCTCT	GTGGAAACCA	GGACACTAAT	AAAATCTGAG	CCTGTAAGTC	CAAAGATGG	120
TGTTTTACCA	CAGGCTACTG	GAGACCAGAA	ATCTGGTGA	AAATGTGAAA	CAGACAGACG	180
CATGGTTGCA	GCCAGAACAG	AACCCCTAAC	TCCAAACCCA	GCTTCTAAGA	AACCAAGAGT	240
CCACAAAAGG	GGATCAGAAT	CTAGTTCTGA	TTCTGACTCA	GATTCTGAGA	GATCATCTTG	300
TTCTTCCAGA	TCATCTTCTT	CCTCATCATC	CTCTTCTTGT	CCCACTCTCG	AG	352

## (2) INFORMATION FOR SEQ ID NO:516:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 500 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:516:

GTCTACACCN	TTCCGAGTTG	GCTGCAGATT	TGTGGTGCGT	TCTGAGCCGT	CTGTCCTGCG	60
CCAAGATGCT	TCAAAGTATT	ATTAAAAACA	TATGGATCCC	CATGAAGCCC	TACTACACCA	120
AAGTTTACCA	GGAGATTTGG	ATAGGAATGG	GGCTGATGGG	CTTCATCGTT	TATAAAATCC	180
GGGCTGCTGA	TAAAAGAAGT	AAGGCTTTGA	AAGCTTCAGC	GCCTGCTCCT	GGTCATCACT	240
AACCAGATT	ACTTGAGTA	CATGTGAAAG	AAAACGTCAG	TCTGCCTGTA	AATTTACAGA	300
AGCCGTGTTA	GATGGGGAGC	GTGGAACGTC	ACTGTACACT	TGTATAAGTA	CCGTTTACTT	360
CATGGCATGA	ATAAATGGAT	CTGTGAGATG	CAC TGCTACC	TGGTACTGCT	TTCAAGTGTG	420
TCCCCCTCAG	CCCCTCCGGC	GTGTCAGGCA	TACTCTGAGT	AGATAATTG	TCATGCAGCG	480
CATGCAATCA	GAATCTCGAG					500

## (2) INFORMATION FOR SEQ ID NO:517:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 427 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:517:

GAATTCGGCC	TTCATGGCCT	AGATGCTCAA	CACCTCCTCC	TTGGTGGAGC	AGCTGAACGA	60
GCAGTTTAA	TGGGTGTCCC	GGCTGGCAAA	CCTCACGCAA	GGCGAACACC	AGTACTATCT	120
GCGGGTCACC	ACGGTGGCTT	CCCACACTTC	TGACTCGGAC	GTCCTTCCG	GTGTCACTGA	180
GGTGGTCGTG	AAGCTCTTTG	ACTCTGATCC	CATCACTGTG	ACGGTCCCTG	TAGAAGTCTC	240
CAGGAAGAAC	CCTAAATTTA	TGGAGACCGT	GGCGGAGAAA	GCNCTGCAGG	AATACCGCAA	300
AAAGCACCGG	GAGGAGTGAG	ATGTGGATGT	TGCTTTTGCA	CCTACGGGGG	CATCTGAGTC	360
CAGTCCCCC	CAAGATGAGC	TGCAGCCCCC	CAGAGAGAGC	TCTGCACGTC	ACCAAGTAAC	420
TCTCGAG						427

## (2) INFORMATION FOR SEQ ID NO:518:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 399 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:518:

GAATTCGGCC	TTCATGGCCT	AATCTTAAGG	GACCTTTCCT	TACTACAGAT	TCAAATGCGA	60
GATCTTGAGG	GTTACAGGGA	AACGAGGTAT	CAGTTACTTC	AGCTTCGACC	TGCGCAGAGA	120
GCATCATGGA	TTGGTTATGC	TATTGCTTAC	CATTTATTAG	AAGATTATGA	AATGGCAGCA	180
AAGATTTTAG	AAGAATTTAG	GAAAACACAA	CAGACATCCC	CTGACAAGGT	GGATTATGAA	240
TATAGTGAAC	TACTCTTATA	TCAGAATCAA	GTTCTTCGGG	AAGCAGGTCT	CTATAGAGAA	300
GCTTTGGAAC	ATCTTTGTAC	CTATGAAAAG	CAGATTTGTG	ATAAACTTGC	TGTAGAAGAA	360
ACCAAAGGGG	AACTTCTGTT	GCAACTATGT	CGTTTGGAA			399

## (2) INFORMATION FOR SEQ ID NO:519:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 399 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:519:

GAATTCGGCC	TTCATGGCCT	ACTTATCTTA	ATCCAATGGG	TGACATCTTC	AACAACCCTG	60
TTCCAAATAA	GGCTGCATTC	TAAACACTAG	GGATTAAGAC	ATCAACATGT	GAATTTTGGA	120
GGAAATGTAGT	TCTAACCATA	ACAGCAGTGA	ATGAGATGAC	AGACTATTGC	TCTCAAAAGA	180
TAGCCAGGTT	TCTAGTTTCC	TTAGGCATTT	TCTGGAGGTT	TGCGAGCAGT	TCATTATTAT	240
CTTAAAAATA	TTATCCAGAG	CTGTGGTCTA	TCAGCAGCTC	ATTACCAGAC	TGGCAGATAC	300
ATTTAATCAG	CAAAGAGTT	GTTCTGTGA	TTAGCATCCT	CCTGGTTTCC	CAGCTCAAGA	360
GTTCTTCTGA	GTAATAGTAA	TCCTTCCCCC	ATGCTCGAG			399

## (2) INFORMATION FOR SEQ ID NO:520:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 273 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:520:

```

GCTGAAGTGG TGACTTTTGA GAGAGGACAC AAAATTATCA TCAGCTCCAG TCGGAGAATC      60
CAGAAAGGAG AAGAGGTAAG AGTGTGAGAG ATTGCATCTG CCATGTTGTT CAGATCCTGG      120
GCGAATAGTT CCCTCCTCAC ACAGGTCAC TACTCACTTG TTTCCCAATT CTTTGTGTGTG      180
ATAAAACTC TGTCCATAAT AGGCCAGATG TTCCCACCCT GCAGTATCTC ACCCTTCAGG      240
CACTCCAGTT CACCTTCCTC CACATCCCTC GAG                                     273

```

## (2) INFORMATION FOR SEQ ID NO:521:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 323 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:521:

```

GCTTTAAGAA TTAACGAAAG CAGTGTCAAG ACAGTAAGGA TTCAAACCAT TTGCCAAAAA      60
TGAGTCTAAG TGCAATTTACT CTCTTCCTGG CATTGATTGG TGGTACCAGT GGCCACTACT      120
ATGATTATGA TTTTCCCCTA TCAATTTATG GGCAATCATC ACCAAACTGT GCACCAGAAT      180
GTAAGTCCC TGAAAGCTAC CCAAGTGCCA TGTACTGTGA TGAGCTGAAA TTGAAAAGTG      240
TACCAATGGT GCCTCCTGGA ATCAAGTATC TTTACCTTAG GAATAACCAG ATTGACCATA      300
TTGATGAAAA GGCCGCACTC GAG                                     323

```

## (2) INFORMATION FOR SEQ ID NO:522:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 274 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:522:

```

GGAAAAAGAA GAGAAAGCCA AGGAAGACAA GGGCAAACAA AAGTTGAGGC AGCTTCACAC      60
ACACAGATAC GGAGAACCAG AAGTGCCAGA GTCAGCATTC TGGAAGAAAA TCATAGCATA      120
TCAACAGAAA CTTCTAAACT ATTTTGCTCG CAACTTTTAC AACATGAGAA TGTTAGCCTT      180
ATTTGTGCGA TTTGCTATCA ATTTATCTT GCTCTTTTAT AAGGTCTCCA CTTCTTCTGT      240
GGTTGAAGGA AAGGAGCTCC CCACGAGGCT CGAG                                     274

```

## (2) INFORMATION FOR SEQ ID NO:523:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 273 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:523:

```

GCCCCAGTCC AGATCCAGGA CTGAGATCCC AGAACCATGA ACCTGGCCAT CAGCATCGCT      60
CTCCTGCTAA CAGTCTTGCA GGTCTCCCGA GGGCAGAAGG TGACCAGCCT AACGGCCTGC      120
CTAGTGGACC AGAGCCTTCG TCTGGACTGC CGCCATGAGA ATACCAGCAG TTCACCCATC      180

```

CAGTACGAGT TCAGCCTGAC CCGTGAGACA AAGAAGCACG TGCTCTTTGG CACTGTGGGG 240  
 GTGCCTGAGC ACACATACCG CTCCTCCTC GAG 273

(2) INFORMATION FOR SEQ ID NO:524:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 456 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:524:

GAATTCGGCC TTCATGGCCT ACTCTCCTAT AAAGCAGACG CCGCGCCGCG CTGCGACGCT 60  
 GTAGTGGCTT CGTCTTCGGT TTTTCTCTTC CTTGCGTAAC GCCTCCCGGC TCTCGTCAGC 120  
 CTCCCGCCGG CCGTCTCCTT AACACCGAAC ACCATGCCTT CAATTAAGTT GCAGAGTTCT 180  
 GATGGAGAGA TATTTGAAGT TGATGTGGAA ATTGCCAAAC AATCTGTGAC TATTAAGACC 240  
 ATGTTGGAAG ATTTGGGAAT GGATGATGAA GGAGATGATG ACCCAGTTCC TATACCAAAT 300  
 GTGAATGCAG CAATATTAAA AAAGGTCATT CAGTGGTGCA CCCACCACAA GGATGACCCT 360  
 CCTCCTCTG AAGATGATGA GAACAAAGAA AAGCGAACAG ATGATATCCC TGTTTGGGAC 420  
 CAAGAATTCC TGAAAGTTGA CTAAGGAACA CTCGAG 456

(2) INFORMATION FOR SEQ ID NO:525:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 452 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:525:

GAATTCGGCC TTCATGGCCT AATGGGACAA CTCCTCGCCC TCTACCTGTC CCCTCCCCCT 60  
 TTGGTTGTAT GATTTTCTTC TTTTAAAGA ACCCTGGAA GCAGCGCCTC CTTCAGGGTT 120  
 GGCTGGGAGC TCGCCCATC CACCTCTGG GGTACCTGCC TCTCTCTC CTGTGGTGTC 180  
 CCTTCCCTCT CCGATGTGCT CCGGTGTCAG TGGTGTATAT TTCTTCTCCC AGACATGGGG 240  
 CACACGCCCC AAGGGACATG ATCCTCTCCT TAGTCTTAGC TCATGGGGCT CTTTATAAGG 300  
 AGTTGGGGGG TAGAGGCAGG AAATGGGAAC CGAGCTGAAG CAGAGGCTGA GTTAGGGGGC 360  
 TAGAGGACAG TGCTCCTGGC CACCCAGCCT CTGCTGAGAA CCATTCCTGG GATTAGAGCT 420  
 GCCTTTCCCA GGGAAAAAGT GTCCGACTCG AG 452

(2) INFORMATION FOR SEQ ID NO:526:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 366 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:526:

GCGATTGAAT TCTAGACCAG ACTCGTCTCA GGCCAGTTGC AGCCTTCTCA GCCAAACGCC 60  
 GACCAAGGAA AACTCACTAC CATGAGAATT GCAGTGATT GCTTTTGCTT CCTAGGCATC 120



ACCTGTGCCA	TACCAGTTAA	ACAGGCTGAT	TCTGGAAGTT	CTGAGGAAAA	GCAGCTTTAC	180
AACAAATACC	CAGATGCTGT	GGCCACATGG	CTAAACCCTG	ACCCATCTCA	GAAGCAGAAT	240
CTCCTAGCCC	CACAGACCCT	TCCAAGTAAG	TCCAACGAAA	GCCATGACCA	CATGGATGAT	300
ATGGATGATG	AAGATGATGA	TGACCATGTG	GACAGCCAGG	ACTCCATTGA	CTCGAATCGA	360
CTCGAG						366

## (2) INFORMATION FOR SEQ ID NO:527:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 408 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:527:

GCCCCAGTCC	AGATCCAGGA	CTGAGATCCC	AGAACCATGA	ACCTGGCCAT	CAGCATCGCT	60
CTCCTGCTAA	CAGTCTTGCA	GGTCTCCCGA	GGGCAGAAGG	TGACCAGCCT	AACGGCCTGC	120
CTAGTGGACC	AGAGCCTTCG	TCTGGACTGC	CGCCATGAGA	ATACCAGCAG	TTCACCCATC	180
CAGTACGAGT	TCAGCCTGAC	CCGTGAGACA	AAGAAGCAGC	TGCTCTTTGG	CACTGTGGGG	240
GTGCCTGAGC	ACACATACCG	CTCCCGAACC	AACTTCACCA	GCAAATACAA	CATGAAGGTC	300
CTCTACTTAT	CCGCCTTCAC	TAGCAAGGAC	GAGGGCACCT	ACACGTGTGC	ACTCCACCAC	360
TCTGGCCATT	CCCCACCCAT	CTCCTCCAG	AACGTTACAG	TGCTCGAG		408

## (2) INFORMATION FOR SEQ ID NO:528:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 403 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:528:

GTAGGTCACA	GCAGAAGCAG	CCAAAATGGA	TCCCCAGTGC	ACTATGGGAC	TGAGTAACAT	60
TCTCTTTGTG	ATGGCCTTCC	TGCTCTCTGG	TGCTGCTCCT	CTGAAGATTG	AAGCTTATTT	120
CAATGAGACT	GCAGACCTGC	CATGCCAATT	TGCAAACTCT	CAAAAACCAA	GCCTGAGTGA	180
GCTAGTAGTA	TTTTGGCAGG	ACCAGGAAAA	CTTGGTTCTG	AATGAGGTAT	ACTTAGGCAA	240
AGAGAAATTT	GACAGTGTTT	ATTCCAAGTA	TATGGGCCCG	ACAAGTTTTG	ATTCCGACAG	300
TTGGACCCTG	AGACTTCACA	ATCTTCAGAT	CAAGGACAAG	GGCTTGATC	AATGTATCAT	360
CCATCACAAA	AAGCCACAG	GAATGATTCG	CATCCACCTC	GAG		403

## (2) INFORMATION FOR SEQ ID NO:529:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 475 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:529:

GAATTCCTCT	TCTTTACCCT	CGTCCTGCCG	GGCACTTTTC	TTAGGTTTGG	TTTCATCTAC	60
------------	------------	------------	------------	------------	------------	----

```

AGCTTCTATG TTCTCTTCAG CTTGGCTGCT CTCCCCAGTC TCCGTTGGAG GCTGGGCTGT 120
TGCCTTGGCA GCAGCATCCT CTGCGGCAGG GGTGGTGGCA GCAGCAGCAG TGACAGCAGC 180
AGGCACATCG GCTTGTTTAG GCTCCTCCTT GGCTGGGGCA TCTTCAGCCT TGGAGGACGG 240
CGAGTTATCA GTGGAAGCTT TAGTGGCACT TTCTGTCTCA GCTGAGCCGG CCTTCTCCTC 300
TGAGGATGCA GGAGCCTGGG GGGCTACCTG CTCTGTGGCA GCATCACCTT CCCCCTTTT 360
CTCCTCGGAA GGAGTTTCTC CTGCTTTGCC GGGCTCATCA GGCTTGGAGC CAGTGGCTGG 420
GGCTGCTTCG GCAGTAGTGG TGCTTCTCC CTTCTTCTCC ACCCATCGC TCGAG 475

```

## (2) INFORMATION FOR SEQ ID NO:530:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 525 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:530:

```

GTGCTGGCGG ACATGGACGT GGTGAATCAG CTGGTGGCTG GGGGTCAGTT CCGGGTGGTC 60
AAGGAGCCCC TCGGCTTTGT GAAGGTGCTG CAATGGGTCT TCGCCATCTT CGCCTTGCC 120
ACATGCGGCA GCTACAGTGG GGAGCTCCAG CTGAGCGTGG ATTGTGCCAA CAAGACCGAG 180
AGTGACCTCA GCATCGAGGT CGAGTTCGAG TACCCCTTCA GGCTGCACCA AGTGTACTTT 240
GATGCACCCA CCTGCCGAGG GGGCACCACC AAGGTCTTCT TAGTTGGGGA CTA CTCTCG 300
TCAGCCGAAT TCTTTGTCAC CGTGGCCGTG TTTGCCTTCC TCTACTCCAT GGGGGCTCTG 360
GCCACCTACA TCTTCCTGCA GAACAAGTAC CGAGAGAATA ACAAAGGGCC CATGCTGGAC 420
TTTCTGGCCA CGGCTGTGTT CGCCTTCATG TGGCTAGTTA GCTCATCGGC ATGGGCCAAG 480
GGGCTGTCAG ATGTGAAGAT GGCCACAGAC CCAGATGAAC TCGAG 525

```

## (2) INFORMATION FOR SEQ ID NO:531:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 313 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:531:

```

GCAAACAGAC AAGGCTTACA GGTTAGTTCA GGATCTGCGC CTTATCAAGC AAATTGTTTT 60
GCCTATCCAA CCTGCGGTGC CAAACCCATA TACTCTCCTA TCCTCAATAC CTCCCTCCAC 120
AACCCCTCCA TAACCCATTA TTCGGTTCTG GATCTCAAAC ATGCTTTCTT TGCTATTCTT 180
TTGCATCCTT CATCCCAGCC TCTCTTGTCT TTCACTTGGG CTGGCCCTGA CACCCATCAG 240
CCTCAGCAAC TTACCTGGGC TGTACTGCCA CAAGCCTTCA CGGACAGCCC CCATTACTTC 300
AGTAGCCCTC GAG 313

```

## (2) INFORMATION FOR SEQ ID NO:532:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 327 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:532:

```

GAGACTATCG CCTATACTTT ATTTGGGTAA ATGTTTGGT TAAGTTGTT TGGTGGTAGC      60
TGGTTGGGTT GCTGGGGCTC GGTGTTGTGA GTCGCGATGT TCTTCTCCGA GGCCAGAGCC      120
AGGTCGCGGA CGTGGGAAGC CAGTCCCTCG GAACACAGGA AGTGGGTGGA AGTATTTAAA      180
GCATGTGATG AAGATCACAA AGGATATCTC AGCAGAGAGG ACTTTAAAAC TGCTGTTGTA      240
ATGCTGTTTG GGTACAAGCC CTCCAAGATA GAAGTGGATT CTGTGATGTC TTCAATAAAT      300
CCAAATACTT CTGGTATATT ACTCGAG                                     327

```

## (2) INFORMATION FOR SEQ ID NO:533:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 347 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:533:

```

GCCTGCCCCC ACCTTACAGG TCTGGGATGT ACCTTTCCAT CTGTGCTGC TTTCTTCTAT      60
GGGCCCCCTGC CCTCACTCTC AAGAACCTCA ACTACTCCGT GCCGGAGGAG CAAGGGGCCC      120
GCACGGTGAT CGGGAACATC GGCAGGGATG CTCGACTGCA GCCTGGGCTT CCGCCTGCAG      180
AGCGCGGCGG CGGAGGGCGC AGCAAGTCGG GTAGCTACCG GGTGCTGGAG AACTCCGCAC      240
CGCACCTGCT GGACGTGGAC GCAGACAGCG GGCTCCTCTA CACCAAGCAG CGCATCGACC      300
CGGAGTCCCT GTGCCGCCAC AATGCCAAGT GCCAGCTGTC CCTCGAG                                     347

```

## (2) INFORMATION FOR SEQ ID NO:534:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 506 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:534:

```

GGTAGGACCG GCGAGGAATA GGAATCATGG CGGCTGCGCT GTTCGTGCTG CTGGGATTCTG      60
CGCTGCTGGG CACCCACGGA GCCTCCGGGG CTGCCGCCAC ATTCTTCACT ACCGTAGAAG      120
ACCTTGGCTC CAAGATACTC CTCACCTGCT CTTGAATGA CAGCGCCACA GAGGTCACAG      180
GGCACCCTG GCTGAAGGGG GGCCTGGTGC TGAAGGAGGA CGCGCTGCCC GGCCAGAAAA      240
CGGAGTTCAA GGTGGACTCC GACGACCACT GGGGAGAGTA CTCCTGCGTC TTCCTCCCCG      300
AGCCCATGGG CACGGCCAAC ATCCAGCTCC ACGGGCCTCC CAGAGTGAAG GCTGTGAAGT      360
CGTCAGAACA CATCNACGAG GGGGAGACGG CCATGCTGGT CTGCAAGTCA GAGTCCGTGC      420
CACCTGTCAC TGACTGGGCC TGGTACAAGA TCACTGACTC TGAGGACAAG GCCCTCATGA      480
ACGGCTCCGA GAGCAGAGTT CTCGAG                                     506

```

## (2) INFORMATION FOR SEQ ID NO:535:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 475 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:535:

GAATTCCTCT	TCTTTACCCT	CGTCCTGCCG	GGCACTTTCC	TTAGGTTTGG	TTTCATCTAC	60
AGCTTCTATG	TTCTCTTCAG	CTTGGCTGCT	CTCCCCAGTC	TCCGTTGGAG	GCTGGGCTGT	120
TGCCTTGGCA	GCAGCATCCT	CTGCGGCAGG	GGTGGTGGCA	GCAGCAGCAG	TGACAGCAGC	180
AGGCACATCG	GCTTGTTTAG	GCTCCTCCTT	GGCTGGGGCA	TCTTCAGCCT	TGGAGGACGG	240
CGAGTTATCA	GTGGAAGCTT	TAGTGGCACT	TTCTGTCTCA	GCTGAGCCGG	CCTTCTCCTC	300
TGAGGATGCA	GGAGCCTGGG	GGGCTGCCTG	CTCTGTGGCA	GCATCACCCCT	CCCCCTTCTT	360
CTCCTCGGAA	GGAGTTTCTC	CTGCTTTGCC	GGGCTCATCA	GGCTTGGAGC	CAGTGGCTGG	420
GGCTGCTTCG	GCAGTAGTGG	TGCCTTCTCC	CTTCTTCTCC	ACCCCATCGC	TCGAG	475

## (2) INFORMATION FOR SEQ ID NO:536:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 501 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:536:

GAATTCGCCT	TCATGGCCTA	CAAGCTCTAG	CCTAGACCTT	TAGTGTGCCA	TGCAGTCACA	60
GGTCTGAAAA	GCAGCATCAT	CCAAACCTTA	CTTAATCTCT	AAAATCTCAG	CTGGTGGACA	120
GCTCATGATT	AGTTCAGCCC	ACTTCCTCCC	CCTTAGTTGA	GTTTGCAGCA	GGACGCAGGA	180
GATAAGCACT	TCCAAGCAAG	TCTGATTTAT	ATATCAAACCT	CGGTCTCCAT	CCCAGGCCAG	240
CTGACCCTCA	GAGCCAGCAA	TGCTCTGTGC	TTCTCCCTG	CGTCACGGCT	TGGCAAGAGC	300
TGCCTCTGCT	GAGCAGTGTG	TGTGATGGAG	ACGGAGGCCG	CTGAAGGCCG	AGTGCTTGCA	360
GGCTTGTA	CTGCCATCGA	ACACAATCCA	AACTCTGGAA	ATGTTCTTGA	CCACCTAAGC	420
CCTCAACAAC	GTAATGCCTG	TATGTGCTNT	TTNTCAGTAA	ACTCCTTGCT	CATGTCNATA	480
AAGTATCCCT	GAACACTCGA	G				501

## (2) INFORMATION FOR SEQ ID NO:537:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 297 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:537:

GCGGGCACCA	TTTCCAGTAT	GTACCAAACC	AAAGCCGTCA	TCATTGCAAT	GATCATCACT	60
GCGGTGGTAT	CCATTTCAGT	CACCATCTTC	TGCTTTCAGA	CCAAGGTGGA	CTTCACCTCG	120
TGCACAGGCC	TCTTCTGTGT	CCTGGGAATT	GTGCTCCTGG	TGACTGGGAT	TGTCAGTAGC	180
ATTGTGCTCT	ACTTCCAATA	CGTTTACTGG	CTCCACATGC	TCTATGCTGC	TCTGGGGGGC	240
ATTGTGTTCA	CCCTGTTTCT	GGCTTACGAC	ACACAGCTGG	TCCCGGGGAA	CCTCGAG	297

## (2) INFORMATION FOR SEQ ID NO:538:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 276 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:538:

GCTCCACCAG	CTACTGAGAA	AATGGCCTGT	AAAGATCCAG	AAAAACCCAT	GGAGGCCTGT	60
GCCTCAGCAC	ATGTGCAACC	CAAGCCTGCC	CCTGAAGCCA	GTAGCCTAGA	GGAGCCCCAT	120
AGCCCAGAAA	CAGGGGAGAA	GGTAGTAGCA	GGAGAGGTAA	ACCCACCCAA	TGGCCCTGTG	180
GGGGACCCAC	TGAGCCTCTT	GTTTGGGGAT	GTGACATCCC	TGAAAAGCTT	TGATTCATTG	240
ACAGGTTGTG	GTGACATAAT	AGCAGAACAA	CTCGAG			276

## (2) INFORMATION FOR SEQ ID NO:539:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 267 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:539:

GAATTCGGCC	TTCATGGCCT	AGCCAGACAA	CTGTACTGA	TCTTTCTTTG	CTTTCCTAC	60
TAATCACACA	CACCCTCTCT	TCTAGCCTGT	GAAGACTTAA	CTGATTTTCT	ACGGATGAAG	120
GTTTCAGTGT	CCCAAGGCC	CATACCGTAT	CTGATTTTAC	TTTATTTTGT	TTTGTTAAGC	180
CTAACAGCTT	CTGAGGAGCC	ACGTAGAGCT	CAAGAAGCAA	AAGCTACTGA	GAGTAGATGC	240
TATGTAAACT	GCACAAGACG	TCTCGAG				267

## (2) INFORMATION FOR SEQ ID NO:540:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 379 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:540:

GAATTCGGCC	TTCATGGCCT	ACAAAAAGAT	GCTGGACAAG	GCGTTTGAG	AGCGGATCAT	60
CCATGACTAC	AAGGATATTT	TCAAACAAGC	AACTGAAGAC	AGGCTCACC	GTGCCAAGGA	120
ACTGCCCTAT	TTTGAAGGTG	ATTTCTGGCC	CAATGTGTTA	GAAGAGAGCA	TTAAGGAACT	180
AGAACAAGAA	GAAGAGGAGA	GGAAAAAGGA	AGAGAGCACT	GCAGCCAGTG	AAACCACTGA	240
GGGCAGTCAG	GGCGACAGCA	AGAATGCCNA	GAAGAAGAAC	NACNAGAAAA	CCAACAAGAA	300
CAAAAGCAGC	ATCAGCCGCG	CCAACAAGAA	GAAGCCCAGC	ATGCCCAACG	TGTCCAATGA	360
CCTGTCCCAG	AAACTCGAG					379

## (2) INFORMATION FOR SEQ ID NO:541:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 307 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:541:

GAATTCGGCC	TTCATGGCCT	ACATAATTTG	AATCAACACA	ACCACCCACA	GCCTAATTAT	60
TAGCATCATC	CCTCTACTAT	TTTTTAACCA	AATCAACAAC	AACCTATTTA	GCTGCTCCCC	120
AACCTTTTCC	TCCGACCCCC	TAACAACCCC	CCTCCTAATA	CTAACTACCT	GACTCCTACC	180
CCTCACAATC	ATGGCAAGCC	AACGCCACTT	ATCCAGTGAA	CCACTATCAC	GAAAAAACT	240
CTACCTCTCT	ATACTAATCT	CCNNACAAAT	CTCCTTAATT	ATAACATTCA	CAGCCACAGA	300
TCTCGAG						307

## (2) INFORMATION FOR SEQ ID NO:542:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 353 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:542:

GGATGGCGCC	GCGGAGGGTC	AGGTCGTTTC	TGCGCGGGCT	CCCGCGGCTG	CTACTGCTGC	60
TGCTCTTCCT	CGGGCCCTGG	CCCGCTGCGA	GCACGCGCGG	CAAGTACTCG	CGGGAGAAGA	120
ACCAGCCCAA	GCCGTCCCCG	AAACGCGAGT	CCGGAGAGGA	GTTCCGCATG	GAGAAGTTGA	180
ACCAGCTGTG	GGAGAAGGCC	CAGCGACTGC	ATCTTCCTCC	CGTGAGGCTG	GCCGAGCTCC	240
ACGCTGATCT	GAAGATACAG	GAGAGGGACG	AACCTCGCTG	GAAGAAACTA	AAGCTTGACG	300
GCTTGACGA	AGATGGGGAG	AAGGAAGCGA	GACTCATACG	CAACACACTC	GAG	353

## (2) INFORMATION FOR SEQ ID NO:543:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 310 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:543:

GGATACCCTA	AAAAACAAT	CTATGTCAGA	GGCTTCACTG	GAGGTTACGT	CACGTTATCG	60
TATTAATTTA	GAAGATGAGA	CACAGGATTT	AAAGAAGAAA	TTAGGTCAAA	TCAGAAATCA	120
ATTGCAAGAA	GCACAGGATC	GACATACAGA	AGCTGTCAGA	TGTGCTGAGA	AGATGCAAGA	180
TCACAAGCAA	AAGCTTGAAA	AAGATAATGC	CAAGTTAAAA	GTTACAGTCA	AAAAGCAAAT	240
GGACAAAATT	GAGGAGCTTC	AGAAAAACCT	GTTAAATGCA	AATTTGTCTG	AAGATGAAAA	300
GGAACTCGAG						310

## (2) INFORMATION FOR SEQ ID NO:544:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 282 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:544:

GTTTGGATGA	TTGGTGGCGT	GTACGCAGCT	GCTATGGCCT	GGGCCATCAT	CCCCCACTAT	60
GGGTGGAGTT	TTCAGATGGG	TTCTGCCTAC	CAGTTCCACA	GCTGGAGGGT	CTTCGTCCTC	120

GTCTGCGCCT TTCCTTCTGT GTTTGCCATT GGGGCTCTGA CCACGCAGCC TGAGAGCCCC	180
CGTTTCTTCC TAGAGAATGG AAAGCATGAT GAGGCCTGGA TGGTGCTGAA GCAGGTCCAT	240
GATACCAACA TGCGAGCCAA AGGACATCCT GAGCGACTCG AG	282

## (2) INFORMATION FOR SEQ ID NO:545:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 362 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:545:

GAATTCGGCC TTCATGGCCT AGAACTTGT ACACCATGGA ATGTTCTACT TATTATTTG	60
TGCTACAATA TGTGCTGTTT CTTTTGTTG AATTGCAGAT TGTCTACTAT GAAGCAGGGA	120
TTATTCTATG CTGTGTCCTG GGGCTGCTGT TTATTATTCT GATGCCTCTG GTGGGGTATT	180
TCTTTTGTAT GTGTCGTTGC TGTAACAAAT GTGGTGGAGA AATGCACCAG CGACAGAAGG	240
AAAATGGGCC CTTCTGAGG AAATGCTTTG CAATCTCCCT GTTGGTGATT TGTATAATAA	300
TAAGCATTGG CATCTTCTAT GGTTTGTGG CAAATCACCA GGTAAGAACC CGGATCCTCG	360
AG	362

## (2) INFORMATION FOR SEQ ID NO:546:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 315 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:546:

TCGAGGGACA TGAGGCTGAG CTGGTTCCAG GTCCTGACAG TACTGTCCAT CTGCCTGAGC	60
GCCGTGGCCA CGGCCACGGG GGCCGAGGGC AAAAGGAAGC TGCAGATCGG GGTCAAGAAG	120
CGGGTGGACC ACTGTCCCAT CAAATCGCGC AAAGGGGATG TCCTGCACAT GCACTACACG	180
GGGAAGCTGG AAGATGGGAC AGAGTTTGAC AGCAGCCTGC CCCAGAACCA GCCCTTTGTC	240
TTCTCCCTTG GCACAGGCCA GGTCAACAAG GGCTGGGACC AGGGGCTGCT GGGGATGTGT	300
GAGGGGGACC TCGAG	315

## (2) INFORMATION FOR SEQ ID NO:547:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 449 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:547:

GAATTTTAAT TAAGAATTCG GCCTTCATGG CCTAATCGAG GAGAATGGAG ACCAAACCTG	60
TGATAACCTG TCTCAAAACC CTCCTCATCA TCTACTCCTT CGTCTTCTGG ATCACTGGGG	120
TGATCCTGCT GGCTGTTGGA GTCTGGGGCA AACTTACTCT GGGCACCTAT ATCTCCCTTA	180
TTGCCGAGAA CTCCACAAAT GTCCTTATG TGCTCATCGG AACTGGCACC ACTATTGTTG	240

TCTTTGGCCT	GTTTGGATGC	TTTGCTACAT	GTCGTGGTAG	CCCATGGATG	CTGAAACTGT	300
ATGCCATGTT	TCTGTCCCTG	GTGTTCCCTGG	CTGAGCTCGT	AGCTGGCATT	TCAGGGTTTG	360
TGTTTCGTCA	TGAGATCAAG	GACACCTTCC	TGAGGACTTA	CACGGACGCT	ATGCAGACTT	420
ACAATGGCAA	TGATGAGAGA	ATGCTCGAG				449

## (2) INFORMATION FOR SEQ ID NO:548:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 374 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:548:

GGGCTTTAAA	GGCAGACATT	GATGCTACAT	TATATGAACA	AGTCATCCTG	GAAAAAGAAA	60
TGGGAACCTA	TTTGGGCACC	TTTGATGATT	ACTTGGAGTT	ATTCTGCAG	TTTGGTTATG	120
TGAGCCTTTT	CTCCTGTGTT	TACCCATTAG	CAGCTGCCTT	TGCTGTGTTA	AATAACTTCA	180
CTGAAGTAAA	TTCAGATGCC	TTAAAAATGT	GCAGGGTCTT	CAAACGTCCA	TTCTCAGAAC	240
CTTCAGCCAA	TATTGGTGTG	TGGCAGTTGG	CTTTTGAAAC	GATGAGTGTT	ATATCTGTGG	300
TCACTAACTG	TGCGCTGATT	GGAATGTCAC	CACAAGTGAA	TGCAGTCTTT	CCAGAATCAA	360
AGGCAGACCT	CGAG					374

## (2) INFORMATION FOR SEQ ID NO:549:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 294 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:549:

GTACAATCTG	AATCCAGGTC	TGACAGCTGG	CCATACAAAG	TCATACTTTC	CCCACATCCC	60
TCCTCTTTGA	TAGGCATTGT	CATCTAGAGC	AATAGCCTCG	AAATAGACTG	AACACCGTGG	120
CCCATAGCTT	AACTCCGTTT	CACCTCTATT	TCAAAGTAAA	CTTGGGCTGG	GATTACAGGC	180
ATGAGTATGT	TTTCATTGTG	ACATAAAGAC	TTTATACAAA	TGCTCTTCCT	AATATTGTCT	240
ACTTATTTTT	GCATTAGTTC	AAATTCTTTG	TCCTGTCATC	CCAAAACCTCT	CGAG	294

## (2) INFORMATION FOR SEQ ID NO:550:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 303 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:550:

GAATTCGGCC	TTCATGGCCT	ACACTGCACG	GGGAACCCCC	GAACCATCAT	CGTGCCACCC	60
CTGAAACCC	AGGCCAGCGA	AGTATTGGTG	GAGTGTGATA	GCCTGGTGCC	AGTCAACACC	120
AGTCACCACT	CGTCCTCCTA	CAAGTCCAAG	TCCTCCAGCA	ACGTGACCTC	CACCAGCGGT	180
CACTCTTCAG	GGAGCTCATC	TGGAGCCATC	ACCTACCGGC	AGCAGCGGCC	GGGCCCCCAG	240



TTCCAGCAGC AGCAGCCACT CAATCTCAGC CAGGCTCAGC AGCACATCAC CACGGCCGTC 300  
GAG 303

(2) INFORMATION FOR SEQ ID NO:551:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 375 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:551:

GCCACAAGCC TGTCAGCAAG TGGGGCTACT TGGGTCTCG GGCCTCAATC CACTCCTGGC 60  
 CAGAGACAAC TTCCTCTCCC ATGGGAAAGG CTAACGCATG CCCATAAATT AAGACATTG 120  
 CTCTCCCTCC AAGCCCTGGA AACCTGGGAC TCTCTAACAT CTACCTCTGT TTTCTTTGGC 180  
 TGCATTCAAC TTTCTGCAA TTAGTCAGGC CCTGGGGCAG CAGTTAGACG ACAGATGAGT 240  
 CAGAGGATTG CAGAATCTAA TCCAGAAGGA AGAGTTTATC CAAATGTTGG TGGCCTTTCT 300  
 CTTTTGGCGC ATTCTCTTCT GGTCTGTCT TTTCTCAGGA GTCCTCTGAG CTTCCATGTA 360  
 CCGGGCCCCC TCGAG 375

(2) INFORMATION FOR SEQ ID NO:552:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 390 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:552:

GCAAGGGCAG GCGGGTCCCC CAGTCCCGCC ATTACGGGTT GTCAGACCGT CTGCGTGTGG 60  
 CAGGGCTCCC AAGGGCAGGC GGGTCCCCCA GTCCCGCCAT TACGGGTGTT CAGACCGTCT 120  
 GCGTGTGGCA TTTTTTGGCT TATAAGCTTC ACCCACTCAC CCCCACCCA CACCCACAT 180  
 CCCCTGCGC GCAGCCCTC AACCTAAGAA GGCCAGAGCA TATTTATTT CGGAGGGAGC 240  
 AGATTACTTC TCCCAGAGAA AGGAAAATCT TGGAAAAGAT TAAAAACAC AAATCTAAGC 300  
 CTTGACGGTT TTTTTTCCC TTTGACCCC CTTCCCATTT TTTCAGNATT TATCCCCTG 360  
 GCTTTTTTTT TTCTTGTGCG TGTTCTCGAG 390

(2) INFORMATION FOR SEQ ID NO:553:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 620 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:553:

GAATTCGGCC AAAGAGGCCT AAGCAGGCGC GAGGCGGCGG CAGCGAGCCG GGTCCCACCA 60  
 TGGCCGCGAA TTATTCCAGT ACCAGTACCC GGAGAGAACA TGTCAAAGTT AAAACCAGCT 120  
 CCCAGCCAGG CTTCTTGAA CGGCTGAGCG AGACCTCGGG TGGGATGTTT GTGGGGCTCA 180  
 TGGCCTTCCT GCTCTCCTTC TACCTAATTT TCACCAATGA GGGCCGCGCA TTGAAGACGG 240

CAACCTCATT	GGCTGAGGGG	CTCTCGCTTG	TGGTGTCTCC	CGACAGCATC	CACAGTGTGG	300
CTCCGGAGAA	TGAAGGAAGC	TGGTGCACAT	CATTGGCGCC	TTACGGACAT	CCAAGCTTTT	360
GTCTGATCCA	AACTATGGGG	TCCATCTTCC	GGCTGTGAAA	CTGCGGAGGC	ACGTGGAGAT	420
GTACCAATGG	GTAAGAACTG	AGGAGTCCAG	GGAGTACACC	GAGGATGGGC	AGGTGAAGAA	480
GGAGACGAGG	TATTCTTACA	ACACTGAATG	GAGGTCAGAA	ATCATCAACA	GCAAAAACCT	540
CGACCGAGAG	ATTGGACACA	AAAACCCCAG	TGCCATGGCA	GTGGAGTCAT	TCATGGCAAC	600
AGCCCCCTTT	GTTCTCTGAG					620

## (2) INFORMATION FOR SEQ ID NO:554:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 600 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:554:

GAATTCGGCC	AAAGAGGCCT	AGGACTTGTT	TCGGAAGGAG	CTGACTGGCC	AATCACAATT	60
GCGAAGATGA	AGGCTCTGTG	GGCCGTGCTG	TTGGTCACAT	TGCTGACAGG	ATGCCTAGCC	120
GAGGGAGAGC	CGGAGGTGAC	AGATCAGCTC	GAGTGGCAAA	GCAACCAACC	CTGGGAGCAG	180
GCCCTGAACC	GCTTCTGGGA	TTACCTGCGC	TGGGTGCAGA	CGCTGTCTGA	CCAGGTCCAG	240
GAAGAGCTGC	AGAGCTCCCA	AGTCACACAA	GAAC TGACGG	CACTGATGGA	GGACACTATG	300
ACGGAAGTAA	AGGCTTACAA	AAAGGAGCTG	GAGGAACAGC	TGGGTCCAGT	GGCGGAGGAG	360
ACACGGGCCA	GGCTGGGCAA	AGAGGTGCAG	GCGGCACAGG	CCCGACTCGG	AGCCGACATG	420
GAGGATCTAC	GCAACCGACT	CGGGCAGTAC	CGCAACGAGG	TGCACACCAT	GCTGGGCCAG	480
AGCACAGAGG	AGATACGGGC	GCGGCTCTCC	ACACACCTGC	GCAAGATGCG	CAAGCGCTTG	540
ATGCGGGATG	CCGAGGATCT	GCAGAAGCGC	CTAGCTGTGT	ACAAGGCAGG	GGCAGTCGAG	600

## (2) INFORMATION FOR SEQ ID NO:555:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 262 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:555:

GAATTCGGCC	TTCATGGCCT	AGTATTTCTT	TATCACAGAT	TTTGGGAGCA	ACAGTGTTTT	60
CCCATCTGGA	GGAGGCTGAG	TTAATTCTGT	GGAACACCCA	TTTGGTTGGA	AATAAAAACA	120
CAGCATGGAT	TTAATTCATG	CCACTTATTT	ATTTTATTAT	GGACTTGAGC	TTCTTTGTAT	180
TTTTTTTGCT	TTGCTTCCAC	TCAAACCCAG	ATTTGGTGGT	TGCTGTGTAA	ACAGTGAAAT	240
ACAACACAGG	CCAGGACTCG	AG				262

## (2) INFORMATION FOR SEQ ID NO:556:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 470 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:556:

```

GAATTCGGCC AAGAGGCCTA GTATTCTTTC GTTCTCTCT AAAAGAAGAA AAATATAATT      60
TAGAAATACA TTGCGTATTT TCTAAAACAA TAAATTTATA GTGTTAATAT TCATAGGGTC      120
AATCAAAATG AAGCTTCTCC TTTGGGCCTG CATGTGTATGT GTTGCTTTTG CAAGGAAGAG      180
ACGGTTCCCC TTCATTGGTG AGGATGACAA TGACGATGGT CACCCACTTC ATCCATCTCT      240
GAATATTCCCT TATGGCATAAC GGAATTACC ACCTCCTCTT TATTATCGCC CAGTGAATAC      300
AGTCCCCAGT TACCCTGGGA ATACTTACAC TGACACAGGG TTACCTTCGT ATCCCTGGAT      360
TCTAACTTCT CCTGGATTCC CCTATGTCTA TCACATCCGT GGTTTTCCCT TAGCTACTCA      420
GTTGAATGTT CCTCCTCTCC CTCCTAGGGG TTTCCCGTTT GTCCCTCGAG      470

```

## (2) INFORMATION FOR SEQ ID NO:557:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 432 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:557:

```

GAATTCGGCC AAAGAGGCCT ATGCAGATTC TGTGGTTATA CTCACTCCTC ATCCCAAAGA      60
ATGAAATTTA CCACTCTCCT CTTCTTGGCA GCTGTAGCAG GGGCCCTGGT CTATGCTGAA      120
GATGCCTCCT CTGACTCGAC GGGTGCTGAT CCTGCCCAGG AAGCTGGGAC CTCTAAGCCT      180
AATGAAGAGA TCTCAGGTCC AGCAGAACCA GCTTCACCCC CAGAGACAAC CACAACAGCC      240
CAGGAGAGTT CGGCGGCAGC AGTTCAGGGG ACAGCCAAGG TCACGTCAAG CAGGCAGGAA      300
CTAAACCCCC TGAAATCCAT AGTGGAGAAA AGTATCTTAC TAACAGAACA AGCCCTTGCA      360
AAAGCAGGAA AAGGAATGCA CGGAGGCGTG CCAGGTGGAA AACAATTCAT CGAAAATGGA      420
AGTTCCCTCG AG                                     432

```

## (2) INFORMATION FOR SEQ ID NO:558:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 104 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:558:

```

GAATTCGGCC AAAGAGGCCT AAAAAGTATA TACATTTTAG TACTGCTTTG ATTTTGTTTA      60
CATACTGAAA AATGTATCTG AAAATGAGTT ATTTGGACT CGAG                          104

```

## (2) INFORMATION FOR SEQ ID NO:559:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 203 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:559:

```

GAATTCGGCC AAAGAGGCCT ATTCACTTCA GCTTCACTGA CTCTGGATT CTCCTCTTGA      60

```

GTAAAGGAC TCAGCCTACT ATGAAGTTTT TTGTTTTTGC TTTAATCTTG GCTCTCATGC	120
TTTCCATGAC TGGAGCTGAT TCACATGCAA AGAGACATCA TGGGTATAAA AGAAAATTCC	180
ATGAAAAGCA ACATGATCTC GAG	203

## (2) INFORMATION FOR SEQ ID NO:560:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 484 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:560:

GAATTCGGCC ACAGAGGCCT AGCCCAGTCT CGGGTATGTC TTTATCAGCA GCATGAAAAT	60
GGACTAATAC AGTTGCTATG ATTATTAGTT TTTTGCTACT GAGTTGTAGG AGTATCTGAT	120
ATATATTTTG GTAACCTAATC CCTTATAAAA TATATTGTTT CCAAATATTT TTTTCCCAT	180
CCATAGGCTG CCTTTTCATT CTGTTGTTTC CTTTGCTTCA GGTAAAGGAT TCTGAAACAA	240
CTATTTGGGC AGCAGAACAG CTTCTTTTGT TTGCTTTCTC ATTGTCTACT GTGTTCTGCA	300
TAAATAAGGT TATGAATTAG CTGTTGTTCA TATGGGTGAA AGATTGTCAT CTGTGGACGC	360
TTAGATAGCA CATATGGTAA ACCATAGAAC TTCACCATT ATAACCTTTG AACAACTGAT	420
ACACTTAGAA AAGCAGTTTT TGGCTGGGCG CGGTGGCTCA TGCCTGTAAT CCCTAGGCCT	480
CGAG	484

## (2) INFORMATION FOR SEQ ID NO:561:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 176 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:561:

GAATTCGGCC AAAGAGGCCT ATTGAATTCT AGACCTGCCT CGAGCTGACA ACTATGAAGT	60
TTTTTGTTTT TGCTTTAATC TTGGCTCTCA TGCTTTCCAT GACTGGAGCT GATTACATG	120
CAAAGAGACA TCATGGGTAT AAAAGAAAAT TCCATGAAAA GCATCAAGGA CTCGAG	176

## (2) INFORMATION FOR SEQ ID NO:562:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 475 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:562:

GAATTCGGCC AAAGGGCCTA ATTTTATTAA TAACATTTTA AAAACAACAA TTATGAAAAA	60
GCAATTCGGT TTACCGCTGA TGCTTGCGTC AGCCCTCGCC TTCTCTGCTT GTAGCTCTGA	120
TGATGTGGCC GAGAATGGCC CAAAGGACAT CGCAGCTCTT ACAGATGGTG GTTACTTGAA	180
GATGCTATC AATCTTCCTT CCGTGCTGC TAATGGTGGC TTCAGAGCTA CGGAACAAGA	240
CGGTTATGTT AACTTGAAG ATGGATTGGC AAAAGAGTAC AATGTAAAGG ATGCTATCCT	300

CGTCCTTTTC CAAGGTGATA ATGAAGCAGA TGCCAAGTTC CATTCTGCAT ATGAACTTAC	360
TACATCAATG CAGAAGGATG GCTCTACGCA AATCACTTCC ACAACGAAAC TTGTTAAGAA	420
TGTGAATATT GGTGGTCAGG GAAATCCTCT TAAACCTGCT GATGTTAAGC TCGAG	475

## (2) INFORMATION FOR SEQ ID NO:563:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 204 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:563:

GAATTCGGCC AAAGAGGCCT ACAATTATGG GGCTTATGGG GAACATGCTC ATTGTGTTTT	60
ACCAATCAGG ACATGGAAC TAAACAATAT TTGTTGACTT ATAGTGAAAC CTGGCTAATT	120
AGGACTCTTA ACCAGCACTC TTAATTAAC TACTTATTTT TCTCTGTGTC CACCCCTCTT	180
AAAGAAAAAG AAGCGAACT CGAG	204

## (2) INFORMATION FOR SEQ ID NO:564:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 102 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:564:

GAATTCGGCC AAAGAGGCCT ATAGGCCTCT TTGGCCGTAG GCCTCTTTGG CCGATTGAAT	60
TCTAGACGCG GCTCGAGGCA GGTCTAGGCC TCTTTGGCCG AA	102

## (2) INFORMATION FOR SEQ ID NO:565:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 285 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:565:

GAATTCGGCC AAAGAGGCCT ACTCAATTGT TCCTTTCTTC CATCACCACC CTTTGAAGGT	60
CTCTTTGCCT ACTTGTAGAT TTAGGGGGAC ATAACATTGA GACTGAGCAG TTTCTTGAAC	120
CTCTCCTCTC AGCAGCCACC AGCCTGGCTT TCGCAGACCA CTGGAAAGTA TCCCAGCTCA	180
TTAGCTTTTG GAATGACGGG AAGCCTTTTG ATGTTNGACG TCTTAATCTC AACTCTTCAA	240
CTTAGCTCAT TCTGGAGCAG TCACGCGATG ACAGATGAGC TCGAG	285

## (2) INFORMATION FOR SEQ ID NO:566:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 259 base pairs
  - (B) TYPE: nucleic acid

(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:566:

GATAACTTGA	GATCAAATCA	GTCATATTTG	ACTCTTCTCT	TTTCACTCC	TTTTATATCT	60
GATCAGTCAG	CAGTTTTTTG	AAACCCTGTT	CGAAGCAGTT	CTCAACACTT	GTGCACCCAT	120
TCTTTCTCCT	ACACCACTCA	ATCTAGACCC	TCACATGTGG	CTGTCCTGCT	TTCTTCTCT	180
CCTACTTCTA	AGCTATTCTG	TGGAGAGATG	TCAAAGTAAT	CTTCACAAAA	AATCTGATTG	240
CATCACTTCA	CATCTCGAG					259

(2) INFORMATION FOR SEQ ID NO:567:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 374 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:567:

GGGCTTTAAA	GGCAGACATT	GATGCTACAT	TATATGAACA	AGTCATCCTG	GAAAAAGAAA	60
TGGGAACTTA	TTTGGGCACC	TTTGATGATT	ACTTGGAGTT	ATTCCTGCAG	TTTGGTTATG	120
TGAGCCTTTT	CTCCTGTGTT	TACCCATTAG	CAGCTGCCTT	TGCTGTGTTA	AATAACTTCA	180
CTGAAGTAAA	TTCAGATGCC	TTAAAAATGT	GCAGGGTCTT	CAAACGTCCA	TTCTCAGAAC	240
CTTCAGCCAA	TATTGGTGTG	TGGCAGTTGG	CTTTTGAAAC	GATGAGTGTT	ATATCTGTGG	300
TCACTAACTG	TGCGCTGATT	GGAATGTCAC	CACAAGTGAA	TGCAGTCTTT	CCAGAATCAA	360
AGGCAGACCT	CGAG					374

(2) INFORMATION FOR SEQ ID NO:568:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 250 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:568:

GAATTCGGCC	TTCATGGCCT	AGATAAGTAA	ATAGACTTAC	AGAGGGAAAG	TAACTTGGCT	60
AAGGTGAAGT	TGAACCAAGA	TGACTGACTC	CAGAGCTTCC	ATTTTCTTTT	TTCTTTCTTT	120
TTTTTTTTTT	NGGAGACAGA	GTCTCACTCT	GTGCGCCAGG	CTGGAGTGCA	ACGCGCGGGT	180
CTCCACTCAC	TGCAGCCTCC	AGCTCCTGGG	CTCAAGTGAT	CCTCCACCT	CAGCACCCCC	240
ACGTCTCGAG						250

(2) INFORMATION FOR SEQ ID NO:569:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 367 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:569:

GAATTCGGCC	TTCATGGCCT	ACAGGGAGGG	AGGGGTTCTG	AGAGCCTCAG	ACCACAGGGC	60
CTGAGGCCCA	CAGTGGCCCA	GAGTCCATCT	GGCAGCCCCT	GCTCTGCTGG	CCCAGGGGGC	120
TCTCCCCAGG	GTGGAGTAGG	CAGGGGAGGG	TCGCTGGTCC	CCAGTCCCAG	CCTTCGAGAG	180
GTGGGGCCAG	ACAGCAGGGC	ACCCGTACCC	GAGACCACAG	TGCTCCCCAA	GGCCAGCTCT	240
CTCCCCAGTG	AGGTCACTCC	TACCTCCGGG	GCCATTTGGG	GCGGGGGATC	CTGTAGATCT	300
CTGACTCTGC	GGCGCCTTAT	CTTGATGGCC	TGGCNCAAGA	AGGGAGGGCG	CTGCCCACTT	360
CCTCGAG						367

(2) INFORMATION FOR SEQ ID NO:570:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 262 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:570:

TTTGGACTGA	CTCTTAAAT	TAGTACAATT	TTTCTACTTG	TCATATAACT	CCTGGAACAA	60
TAGTACGGGA	AGCCGTGATC	CTTTTCCCTG	ACTCATGATT	TAGTCTTTT	TCCAAATCGC	120
TGTTTTTTTT	TGGTTTTTTT	TTTTTTTGCT	GCTCCAACGA	CCAGCATGTG	TTGGAGCAGA	180
TCTCCATGGT	AAGCCAAAAG	TGGACTTGTC	AGCCTATAAC	TACTCTGCAG	CTGCCACTAA	240
CTCTACAGGC	ACAGAGCTCG	AG				262

(2) INFORMATION FOR SEQ ID NO:571:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 307 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:571:

CAGAAACTCT	TGGAATCAAA	AGAGAAAGAA	AAAAGTCAAG	CCAAGGAAAG	CACAAGAGGT	60
AAGACAGGCC	TAGTGATCTC	AGCAGGCAGA	ATTTATGGAC	ATATTTTGCA	GGCAAGTGGT	120
TCTCAATCAG	GGGTGATTTT	TGGCTTGTA	GGACATTTAG	CAATATCTGG	ACACATTTT	180
TGGTTGTCGT	AAGTGGATGG	GGTTTGCTGC	TATCATCCTA	CAATGCATAG	GTGCATTAGT	240
CTGTTTTCAT	GCTGCTGATA	AAGACATACC	GGAGACTGGG	CAATTTGCAA	ATGAGAGATG	300
GCTCGAG						307

(2) INFORMATION FOR SEQ ID NO:572:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 578 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:572:

GAATTCGGCC	TTCATGCCTA	CAGCCATATT	AAAACAAAGT	AAACTCGTCC	CTGGGAACTA	60
CACTTTCAGC	TTGACTGTAG	TAGACTCTGA	TGGAGCTACC	AACTCTACTA	CTGCAAACCT	120
GACAGTGAAC	AAAGCTGTGG	ATTACCCCCC	TGTGGCCAAC	GCAGGCCCCA	ACCAAGTGAT	180
CACCCGTGCC	CAAACTCCA	TCACCTCTT	TGGGAACCAG	AGCACTGATG	ATCATGGCAT	240
CACCAGCTAT	GAGTGGTCAC	TCAGCCCAAG	CAGCAAAGGG	AAAGTGGTGG	AGATGCAGGN	300
TGTTAGAACA	CCAACCTTAC	AGCTCTCTGC	GATGCAAGAA	GGAGACTACA	CTTACCAGCT	360
CACAGTGAAT	GACACAATAG	GACAGCAGGC	CACTGCTCAA	GTGACTGTTA	TTGTGCAACC	420
TGAAAACAAT	AAGCCTCATC	AGGCAGATGC	AGGCCAGAT	AAAGAGCTGA	CCCTTCCTGT	480
GGATAGCACA	ACCCTGGATG	GCAGCAAGAG	CTCAGATGAT	CAGAAAATTA	TCTCATATCT	540
CTGGGAAAAA	CACAGGGACC	TGATGGGTGC	AGCTCGAG			578

## (2) INFORMATION FOR SEQ ID NO:573:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 623 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:573:

GAATTCGGCC	TTCATGGCCT	AACTTTGTGT	GATCAGAGTT	TATGGGTTGG	GCTGCCCCAG	60
GCTTGGATAA	CTTAAAGGCT	TGATGAGGTC	ATCAATTTAT	GCTTGGCTAC	CCATGGCACA	120
GAAGCATAGC	CCCACTGTGA	TGGCTGGGGT	GGCTCCGGGC	ATCCTGGGCA	GTCAGGAGGA	180
AACTCCATGA	AGGAAGGAGC	TAACCTTTCT	GGGGGTACCC	CTATCCCAGC	ACAGACTTCC	240
TCATCTCATT	GGTCAGAACT	GGGTCACATG	AACATGCCTC	AGCCTATCAC	AGGCACAGGG	300
AATGAGACCA	TCATGGACCA	ATCAGGATTC	ACCACTCAAG	GTGGGGCCTG	CCATCCGGAT	360
GGATGCTCTC	CGCCACAGGG	AGGTGGGGGA	CCCAGAAGCT	GTGGGCAATG	GCCATGTGCA	420
CAGTAGGACT	GAGGCACTCA	GTCCCGTAGC	TGACCTACCT	GGGACAGGCC	TGGAGGCTGA	480
CTTAGGTGTG	AGGGGCAGAG	AGATTACTGT	GCACAGACCG	CTGTGTGACC	CCAGATCTAG	540
GTGGGATCCC	GGTGTGCCCC	ATCTGCCTGG	CTTACCCCAA	CCCCTCTGGA	ACCTGAACCA	600
TTGAATTCTA	GACCTGCCTC	GAG				623

## (2) INFORMATION FOR SEQ ID NO:574:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 277 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:574:

GAATTCGGCC	TTCATGGCCT	ACTCCAGAAT	GAAGATCTTC	TTGCCAGTGC	TGCTGGCTGC	60
CCTTCTGGGT	GTGGAGCGAG	CCAGCTCGCT	GATGTGCTTC	TCCTGCTTGA	ACCAGAAGAG	120
CAATCTGTAC	TGCCTGAAGC	CGACCATCTG	CTCCGACCAG	GACAACTACT	GCGTGACTGT	180
GTCTGCTAGT	GCCGGCATTG	GGAATCTCGT	GACATTTGCC	CACAGCCTGA	GCAAGACCTG	240
TTCCCCGGCC	TGCCCCATCC	CAGAAGGCCT	GCTCGAG			277

## (2) INFORMATION FOR SEQ ID NO:575:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 251 base pairs



(B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:575:

GAATTCGGCC	TTCATGGCCT	AAGCTTTTGC	TTTTTTAATA	ACTGTATAG	CTAAAAACTT	60
GACGGTGAAA	AGCTCTCAGA	TCAAAGCTGA	TCCTTCTGTC	AGTAATGATT	CTAAAAATAA	120
GCAAGATTTT	AATGGGGAAT	ATATTTTATT	TCATTCTTAT	CTCAAACCTA	GGTACTGTGG	180
TCGTTTTGAG	TTCATTTTCA	GGCATTTC	ATGTGCCTCA	GGCCACATCC	AACCTCTCCC	240
CAGAACTCGA	G					251

(2) INFORMATION FOR SEQ ID NO:576:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 261 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:576:

GAATTCGGCC	TTCATGGCCT	ACAGTCTAAG	ACATTTTCCTA	TTCTGCCTTC	TTGTCTTCCT	60
CCCTCTCTTC	CACATTGGTC	AGACTTACAT	CTTGGACAGC	TCTCCAGCC	ATCTTCTACT	120
GCCTCCCTAT	TTTCCCTCC	CAGACTTTTC	CCCGCAAAAC	ATCTGTTGCA	GGTGGTATTA	180
ATTTCTATC	ACGGCTGTGA	CAAATTACCA	CAAACCTCAGT	GGCTTAAAC	AATGCACATT	240
TATTATCTGA	CAGTTCTCGA	G				261

(2) INFORMATION FOR SEQ ID NO:577:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 216 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:577:

GAATTCGGCT	TCATGGCCTA	GCAAGACTCC	ATCTCAAAAA	AAGAAAGAAA	GAAAAAAGAA	60
AGTACAAGTT	TATAAAGTAT	TATAGTGAAA	AATTCGCATT	CTGGCTGATT	TTAAGCCATT	120
TAAAATTTAT	ATAAAACAAC	CTCCATAAA	AATTGACAG	GTGCCAGAT	GTTGCTTTCT	180
CCATTTATTT	TTTGTTTTTT	TTTAATCACA	CTCGAG			216

(2) INFORMATION FOR SEQ ID NO:578:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 294 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:578:

GCGATTGAAT TCTAGACCTG CCTCGAGTAA GTGCCGAAAA CTTCAGTGTG CTCATCAAGA	60
ACAATATCGA CTTCCCCGGC CACAACTACA CCACGAGAAA CATCCTGCCA GGTTTAAACA	120
TCAGTTGTAC CTTCCACAAG ACTCAGAATC CACAGTGTCC CATTTCCTGA CTAGGAGACA	180
TCTTCCGAGA AACAGGCGAT AATTTTTCAG ATGTGGCAAT TCAGGTTGGT GGTGCTTTGT	240
ACACTGGGAT GTGGGGCTGT GTGTCTAGGG ATGGAGGATG TCAAACAACT CGAG	294

## (2) INFORMATION FOR SEQ ID NO:579:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 229 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:579:

GAATTCGGCC TTCATGGCCT ACCTTCACAG AAAAATGCAT AGCTGGATGC TGCAGACTCT	60
AGCGTTTGCT GTAACATCTC TCGTCCTTTC GTGTGCAGAA ACCATCGATT ATTATGGGGA	120
AATCTGTGAC AATGCATGTC CTTGTGAGGA AAAGGACGGC ATTTTAACTG TGAGCTGTGA	180
AAACCGGGGG ATCATCAGTC TCTCTGAAAT TAGCCCCCCC GATCTCGAG	229

## (2) INFORMATION FOR SEQ ID NO:580:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 205 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:580:

GAATTCGGCC TTCATGGCCT AGCTTACTTT ACAATTCTGC TGTTTGTCAG GTGTTCTTAT	60
AGTTTTTTTT AAAGGTATGT TAACTATTTT TCCTTTTGG TTTATATTG TAGGAATCTT	120
TGCCTTTAAG TGTGCCCCGTG CAGAAGAATT ATTTAACATG TTGCAAGAGA TTATGCAAAA	180
TAATAGTATA AATGTGGAGC TCGAG	205

## (2) INFORMATION FOR SEQ ID NO:581:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 200 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:581:

GAAGTGTAAT GTCAGACACA CAAGAAAAGC AAATCAGTGT TGTAAGCTTA AAGTACAATT	60
TCAAAGGTCA TTACCAACAG CAGGGTTTTT TTTTACTTT AAAAACATTA TGCTACATAT	120
CATTGCCATT TTCATATTTT GGGGTTTTGC TACTCTTATA CAATGGAATC AATGGAAATG	180
TCATCCAGCC AGATCTCGAG	200

## (2) INFORMATION FOR SEQ ID NO:582:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 321 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:582:

```

GAATTCGGCC TTCATGGCCT ACACAAATGT TTGTTGAGTG CTCATTGTAT GTCTGGAGAC      60
CATTCTGTCT TCTTCCCTAA GAGTGTTCAT GCTGTTGGAC CAGGTGTTAT GATTTTGCTC      120
TGGAGAATAA GGTATTTCCA CATGGAGCAT GTGGAAAATA TAGTGCCTAT CTCCTGAAAG      180
GTCCAGGTGA TGCAAAGATG AATGAGACAT GATTGGAGGT TTTTCTTCTG TCTGAAATGC      240
AGACAGTTCT GGGTTGGGCA GCTCTGTAAG ATGCTGAACA TGTGTCCTTC CAAGAAGCAA      300
GGATCAGAAA GCAGACTCTA G

```

## (2) INFORMATION FOR SEQ ID NO:583:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 355 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:583:

```

GAATTCGGCC TTCATGGCCT ACACCATTGA CTTCTTCTAC CGGCCGCATA CCATCACCCT      60
GCTCAGCTTC ACCATCGTCA GCCTCATGTA CTTGCGCTTT ACCAGGGATG ACTCTGTGCC      120
AGAAGACAAC ATCTGGAGAG GCATCCTCTC TGTTATTTTC TTCTTTCTTA TCATCAGTGT      180
GTTAGCTTTC CCCAATGGTC CGTTCACTCG ACCTCATCCA GCCTTATGGC GAATGGTTTT      240
TGGACTCAGT GTGCTCTACT TCCTGTTCTT GGTATTCCTA CTCTTCCTGA ATTCGAGCA      300
GGTTAAATCT CTAATGTATT GGCTAGATCC AAATCTTCGA TACGGCCACC TCGAG          355

```

## (2) INFORMATION FOR SEQ ID NO:584:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 374 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:584:

```

GGAAACTTCT AGAAATAATG ACAAGGATTC AAACCTATTG TCAAATGAGT CCAATGTCAG      60
ATTTTGGAAC TCAACCCTAT GAACAATGGG CCATTCAAAT GGAAAAAAG GCTGCAAAAG      120
AAGGAAATCG CAAAGAACGT GTTGTGCAG AACATTGAG GAAGTACAAT GAGGCCCTAC      180
AAATTAATGA CACAATTCGA ATGATAGATG CGTATACTCA TCTTGAAACT TTCTATAATG      240
AAGAGAAAGA TAAGAACTTT GCAGTCATAG AAGATGATAG TGATGAGGGT GGTGATGATG      300
AGTATTGTGA TGGTGATGAA GATGAGGATG ATTTAAAGAA ACCTTTGAAA CTGGATGAAA      360
CAGATAGACT CGAG

```

## (2) INFORMATION FOR SEQ ID NO:585:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 295 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:585:

GAATTCGGCC TTCATGGCCT AGAGAACTG AGAGGAAGTT AAAGATTGT CTTACAAAGG	60
CTGTGTAGTG ATAAGACCTA AGGTTTTCTC TGAGATTCAA AATGGGTATT ATTTGTTCTT	120
TAATCCTTCT GATTATTCTT TTGGAAAAA GGAAGTAGA GGAAAGGAAG TAGAAAAATA	180
ATATTTCTTA TACTTATTAT GTACCAGACA TGGTGCTAAG TTCATTAAA AACTGCCTC	240
ATTTAATCTT TGCAACCAAT TTATACCAT ACACATAAGG CCACAAAAGC TCGAG	295

(2) INFORMATION FOR SEQ ID NO:586:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 325 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:586:

GAATTCGGCC TTCATGCCTA AGGTAAGGGA AAGTGAGAAG CAGCAGGATA GTCAGCCTGA	60
AGAAGTTATG GATGTGCTAG AGATGGTTGA GAATGTCAA CATGTAATTG CTGACCAGGA	120
GGTAATGGAA ACTAATCGAG TTGAAAGTGT AGAACCTTCA GAAAATGAAG CTAGCAAAGA	180
ATTGGAACCA GAAATGGAAT TTGAAATTGA GCCAGATAAA GAATGTAAAT CCCTTTCTCC	240
TGGGAAAGAG AATGTCAGTG CTTTAGACAT GGAAAAGGAG TCTGAGGAAA AAGAAGAAA	300
AGAATCTGAG CCCCACCAC TCGAG	325

(2) INFORMATION FOR SEQ ID NO:587:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 272 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:587:

GAATTCGGCC TTCATGGCCT ACAAGGACGT TAAAGGCATT TTATTCCAGC GTCTTCTAGA	60
GAGCTTAGTG TATACAGATG AGGGTGTCCTG CTGCTGCTTT CCTTCGGAAT CCAGTGCTTC	120
CACAGAGATT AGCCTGTAGC TTATATTGTA CATTCTTCAC TGTCTGTTGT ATACCTACCG	180
TAGCTTTTCT CCGTTCACTT CCCCTTCCAA CTATGTCCAG ATGTGCAGGC TCCTCCTCTC	240
TGGACTTTCT CCAAGGCAC TGGACCCTCG AG	272

(2) INFORMATION FOR SEQ ID NO:588:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 243 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:588:

GAATTCGGCC TTCATGGCCT AGCATCCCTG AAACGTGTGTA ATTTTGAGGA TCCTTCTGGT	60
CTTAAAGCCA ATTTAGAAGG TGCTAATCTG AAAGGTGTGG ATATGGAAGG AAGTCAGATG	120
ACAGGAATTA ACCTGAGAGT GGCTACCTTA AAAAATGCAA AGTTGAAGAA CTGTAACCTC	180
AGAGGAGCAA CTCTGGCAGG AACTGATTTA GAGAATTGTG ATCTGTCTGG GTGTTAGCTC	240
GAG	243

(2) INFORMATION FOR SEQ ID NO:589:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 355 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:589:

GAATTCGGCC TTCATGGCCT AAATTATACT CCAAATGTTT TATCTAAAAT GCATTTTCTG	60
TCTTTTCCTT TTTACTCTTG TCCTCACTTT TAATGATCCA TCGGCTGACA GTGTCTTTAC	120
ATCCAAAATG CAAAGCAGAC AAATGGGCAT ATCAGGGAAG AACATGACAA AAAGCACCAG	180
CATCAGTGGG GACATGTGCT CACTGGAGAA GAATGATGGC AGCCAGTCTG ACACTGCAGT	240
GGGCACCTTG GGCACCAGTG GCAAAAAGCG GCGCTCTAGC CTTGGTGCCA AAATGGTAGC	300
TATCGTTGGT CTGTCACGGA AAAGTCGCAG TGCTTCTCAG CTCAGCGGAC TCGAG	355

(2) INFORMATION FOR SEQ ID NO:590:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 362 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:590:

GAATTCAAAT GCTTCAGGTA AATGTTGAAG CTCGGTGTAC CGCGGGACAA ATCCTGAGTC	60
ACCCCTGGGT GTCAGATGAT GCCTCCAGG AGAATAACAT GCAAGCTGAG GTGACAGGTA	120
AACTAAAACA GCACTTTAAT AATGCGCTCC CCAAACAGAA CAGCACTACC ACCGGGGTCT	180
CCGTCATCAT GAACACGGCT CTAGATAAGG AGGGGCAGAT TTTCTGCAGC AAGCACTGTC	240
AAGACAGCGG CAGGCCTGGG ATGGAGCCCA TCTCTCCAGT TCCTCCCTCA GTGGAGGAGA	300
TCCCTGTGCC TGGGGAAGCA GTCCCGGCC CCACCCCTCC GGAATCTCCC ACCCGCTCG	360
AG	362

(2) INFORMATION FOR SEQ ID NO:591:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 298 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:591:

GAATTCGGCC	TTCATGGCCT	ACTCAGTCTG	CACAACTTTT	TTGCTGTGTG	TCGGAATATG	60
TATAACTGGC	TACTGCAGAA	TCCCAAAAAT	GTCTGTGTTG	TCCACTGCTT	GGATGGACGG	120
GCGGCATCAT	CAATTCTGGT	TGGTGCTATG	TTCATTTTCT	GTAATCTCTA	CTCTACTCCT	180
GGCCCAGCCA	TTCGATTGCT	ATATGCAAAG	CGACCAGGAA	TTGGACTTTC	ACCATCCCAT	240
AGGAGATACC	TGGGCTATAT	GTGTGACCTA	CTGGCAGACA	AGCCCTACCG	CCCTCGAG	298

(2) INFORMATION FOR SEQ ID NO:592:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 289 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:592:

GAATTCGGCC	TTCATGGCCT	ACCGTAAGCA	GATGAAGCTG	CTGCTGCTGC	TGCTGCTGCT	60
GAGCTGCGCC	GCGTGGCTCA	CCTACGTGCA	CCTGGGCCTG	GTGCGCCAGG	GACGCGCGCT	120
GCGCCAGCGC	CTGGGCTACG	GGCGAGATGG	TGAGAAGCTG	ACCAGTGAGA	CCGACGGCCG	180
GGGGGTCCAC	GCTGCGCCAT	CCACACAGAG	GGCTGAGGAC	TCCAGTGAGA	GCCGTGAAGA	240
GGAGACCAGC	GCAGACATGC	TGCGGCCAGA	TCCCAGGGAT	TACCTCGAG		289

(2) INFORMATION FOR SEQ ID NO:593:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 302 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:593:

GAGAGATGGT	GACTGAGGCA	GAAGCTAATA	GGGAAGATGA	TAGGAAAGAA	ATTTTACCCA	60
AGGAATTAGA	TTAGCAAGA	GAGCGAAGGA	AAGCTGAGAG	GCCAAAAACA	TCTCTGAGGA	120
AAACTGACTC	TGAGAGAGAA	GAGGTGACAA	GGGCAAATGC	ACTCAAGGAT	GAAGATGCTT	180
TTAAGAAGA	GCAAAAACCT	AAAGCGGAAG	AAGGGGAAAC	AGAGACAGAA	GTAAGAGCTG	240
AGGAAGAGAC	AAAAGCTCCC	CCAAATGAAA	TGGGATCTGA	TGCTGAGAAC	GAAACACTCG	300
AG						302

(2) INFORMATION FOR SEQ ID NO:594:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 261 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:594:

GAATTCGGCC	TTCATGGCCT	AGGATATTTA	AACCTCTATT	ATTTTAGACA	AGACTGTCTA	60
GAACTTAAGT	TTGATCTGTC	AGCCAGTACT	CCCATTAAAT	TCAGTGTAGT	TTCATTGAT	120
AGAATCAGAT	ATGTTATCGA	AATGTTAGCA	GCAGCTTCAT	CCTCCTTCTG	ATTAAAGTAA	180
GTAGAAATGG	GATGTTTGT	TTAATAACAG	CCATAGTGTG	TGTTTAGACC	ACAGCGGATG	240
TTGTAGACCA	GGACCCTCGA	G				261

## (2) INFORMATION FOR SEQ ID NO:595:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 370 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:595:

GAATTCGGCC	TTCATGGCCT	AGGGGCTTTT	GTCAAGATAG	AAGGGTATCA	ACGGTTTCTG	60
TACAGCACAG	ATTATGACAG	CGTCTTTCTT	AAGACTTATC	ATTGGAGCA	CTGGCTCAGG	120
AGTCGAAATC	ACCAATGGCT	CATCCATCAA	TCAACCAGAA	GTGAAGACGA	AAGCTTCAAA	180
GAAGAGAATG	TTTAAATTTC	ATCAAATGAA	ACATATTTT	GAAATACTTG	ATAAAATGAG	240
ATGCCTGAGA	AAACGTTCTA	CAGTGTCAAT	CTTGCGAGTT	CTTGTCATTT	TTCTCCTTTT	300
TATGAACTTG	TACATTGAAG	ATAGCTATGT	TCTGGAAGGA	GACAAACAAC	TTATAAGGGA	360
AACTCTCGAG						370

## (2) INFORMATION FOR SEQ ID NO:596:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 240 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:596:

GAATTCGGCC	TTCATGGCCT	ACTAACGACT	CATCTTTGTT	TTTAGTTTTT	TTAATTAAACA	60
ATCGTTCTGT	TCACAATTTT	TAATTTCTTT	TCTTCCCCCT	TCTCCGCAAA	GCACTCAGGC	120
ATCGGACACG	CTATGGTAAA	CAAACTACAT	TGCTGTGGTAG	ATATCATTCT	TATTGTCTCT	180
TTTTTTGGGT	TTGCCGTGTG	TTGCCCCCCT	TTTCTCTCTC	AACCCCCCCC	ATTCCTCGAG	240

## (2) INFORMATION FOR SEQ ID NO:597:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 224 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:597:

GAATTCGGCT	TCATGGCCTA	GTGTATTGGT	TGTGTGTGTT	TTCCTTTTGG	CATAAGAAAT	60
ATGTCCATTT	AGTCCAGAGG	CTCTTGCTTT	ATCCGGATGA	CGGAGGGTAC	ACGGGGCGTC	120
CGCCTCAGTT	CCCGCCGAAG	GACGTATTCG	CTGAACTGGG	ACGAGTCTAC	TCCTCCCCCA	180
CAGGAGCCCA	CGATTTCAAA	TCCTCTTTGC	TGCAACCTCT	CGAG		224

## (2) INFORMATION FOR SEQ ID NO:598:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 272 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:598:

```

GAATTCGGCC TTCATGGCCT AGATATTTTA AAGGAGTGAT GACATCTTTT TCCTATCATG      60
TGAAGAGGGG AAAGAGAAAG GAAAGGGCCC ATATTATTGT GTTCCTGCTT GTGCCAGCTG      120
TTCTATATCT GTTGATCTCA TTTAGTCCTC ATGACAGTTC TATGAGGAGG GCACTGTCAT      180
CATCACCATT GCACAGATGC AGAAACTGTG GCTCACAGAG GATAAAGCTA GGTCACTCAC      240
ACAACCCCTT GACTCCAGAG CCACCACTCG AG                                     272

```

## (2) INFORMATION FOR SEQ ID NO:599:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 351 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:599:

```

GAATTCGGCC TTCATGGCCT AGTAAGGGAG AAAGTGAATG GTGATTCAGA GCATAGAGAT      60
TATGTTTTTT TATGCACAGG GCTTCATCAG AAAAATGGAA GGAATTGTCA ATAACAATAA      120
AATGTTTCAGC TAGATCAACT CAGTATATAG TATGTATTAT ACAATTATTC AAAATAGTGT      180
TTAACAGTAC TGAATAACA TGAATAAATG TTTTGTGATA TTAAGTGAAA AAGAGCTATA      240
TAAAATTATC TAAGTTTATG GTATATGTAG ATTGTTGCAA AAATGTCCTC AATTCTTTAT      300
CCCTCCCTGT ATCCACACCT GTATCAGTTT TCTCGGGGCA GCTGCCTCGA G                                     351

```

## (2) INFORMATION FOR SEQ ID NO:600:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 107 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:600:

```

GAATTCGGCC TTCATGGCCT AGAATATTTT TATCATCCCA AAGCTAAAAC ATTAAAAAAT      60
TTAAAGTTTA TTCTTAGAGA TTGATGCAAC TTGCATATCT AATCGAG                                     107

```

## (2) INFORMATION FOR SEQ ID NO:601:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 277 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear



(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:601:

```

GGAAAATTAC TTAAACGTTG CACACAACGT TTCACAAAAT CTTTGTGAA AGAAGAAAAG      60
GAAATTCAGT GTGTGAGTCT CAGCAGGAGT TAAGCTAATG CAGCTTAACA TCATGCCGAC      120
AAAGAAGCGC TTATCTGCGG GCAGAGTGCC CCTGATTCTC TTCCTGTGCC AGATGATTAG      180
TGCACTGGAA GTACCTCTTG ATCTGGTACA GCCTCCAACC ATCACCCCGC TAAATCCCTT      240
AGAAGTCCCA CTCCTAAACA CATCCGTATT ACTCGAG                                277

```

(2) INFORMATION FOR SEQ ID NO:602:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 358 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:602:

```

GAATTCAAAT TAACATTTTA CCTTGAAATA GTTGGCTTCA GATTAATATC AACTTAGTTT      60
CAATAGCATA GGAAATTTGC TTCACTATAT TTCCATTTTC TCCCCGTCCT TTGTGCTATT      120
ATTACTATAC CAATTAGATC TCTACACAAAT ATAGGCATAT CAACACATTT TGTAATTATT      180
TCCTTATCCA GTTGTCTTTT AATATAGATC TGTGAAGAAA AGTATTACAC AAATAGATCT      240
ATTCTGTTT TTATAATTAT TTAATTACCT TTGGTGGTGC TGTTTATTTT TCATGCATTT      300
GAGTTACTGT CTAGTATTCA TTCATTTCTC TCTGAATCAC TCCCCGGTAT TGCTCGAG      358

```

(2) INFORMATION FOR SEQ ID NO:603:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 232 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:603:

```

GAATTCGGCC TTCATGGCCT AGCCATCTTA TTTGAACTAT ATTTTTCCTT CAAAGAAGCA      60
ATAGGTCTCA ACATAGTGTA GGTAGCATCA GGTGACAGAA AGCCAATTTT ATTTCAAAT      120
TTAAGTTAAT TATCTTCGTG ATCCTATTTA TCCACAATTT CTTTCAGAAA AGACTGAAAA      180
AACACATTAT ATTCAGGAGA TATAATGAAA TTATTGGAAG GCATCACTCG AG              232

```

(2) INFORMATION FOR SEQ ID NO:604:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 276 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:604:

```

GAATTCGCCC TTCATGGCCT AAATATTTTC CATCTTCCTC TCCAGTAAAC ATTCTTTTGT      60
CATCACAGTC TGTCTCTGAC ACCTTCGTTA AAGAGGTCTT AAAATGGAAA TATGAAATGT      120
TTTTGAACCT TGGTCAGTGT GGGCCCCCTG CAAGTCTTTG TCAGTCCATC TCAAGACCTG      180
TGCCTGTCAG ATTTACAAT TATGGAGATT ATTTTAATGT TTTTTCCTT TTGATGGTAT      240
TGAATACTTT TGAAACAGTG GCACAAGCGG CTCGAG                                276

```

## (2) INFORMATION FOR SEQ ID NO:605:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 450 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:605:

```

GAATTCGGCC AAAGAGGCCT AAAAATATAA TTAAAAATA CATTGCGTAT TTTCTAAAAC      60
AATAAATTTA TAGTGTTAAT ATTCATAGGG TCAATCAAAA TGAAGCTTCT CCTTTGGGCC      120
TGCAATTGTAT GTGTTGCTTT TGCAAGGAAG AGACGGTTCC CCTTCATTGG TGAGGATGAC      180
AATGACGATG GTCACCCACT TCATCCATCT CTGAATATTC CTTATGGCAT ACGGAATTTA      240
CCACCTCCTC TTTATTATCG CCCAGTGAAT ACAGTCCCCA GTTACCCTGG GAATACTTAC      300
ACTGACACAG GGTACCTTC GTATCCCTGG ATTCTAACTT CTCCTGGATT CCCCTATGTC      360
TATCACATCC GTGTTTTTCC CTTAGCTACT CAGTTGAATG TTCCTCCTCT CCCTCCTAGG      420
GGTTTTCCCGT TTGTCCCTCC TAATCTCGAG                                450

```

## (2) INFORMATION FOR SEQ ID NO:606:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 614 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:606:

```

GAATTCGGCC AAAGAGGCCT ATCAGGTGAT TTAATAATAA TTTAAACTA CTATAGAAAC      60
TGCAGAGCAA AGGAAGTGGC TTAATGATCC TGAAGGGATT TCTTCTGATG GTAGCTTTTG      120
TATTATCAAG TAAGATTCTA TTTTCAGTGT TGTGTAAGCA AGTTTTTTTT TAGTGTAGGA      180
GAAATACTTT TCCATTGTTT AACTGCAAAA CAAGATGTTA AGGTATGCTT CAAAAATTTT      240
GTAAATTGTT TATTTTAAAC TTATCTGTTT GTAAATTGTA ACTGATTAAG AATTGTGATA      300
GTTGAGCTTG AATGTCTCTT AGAGGGTGGG CTTTGTGTTG TGAGGGAGGG GAAACTTTTT      360
TTTTTTCTAT AGACTTTTTT CAGATAACAT CTTCTGAGTC ATAACCAGCC TGGCAGTATG      420
ATGGCCTAGA TGCAGAGAAA ACAGCTCCTT GGTGAATTGA TAAGTAAAGG CAGAAAAGAT      480
TATATGTCAT ACCTCCATTG GGAATAAGC ATAACCCTGA GATTCTTACT ACTGATGAGA      540
ACATTATCTG CATATGCCAA AAAAATTTTA AGCAAATGAA AGCTACCAAT TTAAAGTTAC      600
GGAATCACCT CGAG                                614

```

## (2) INFORMATION FOR SEQ ID NO:607:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 293 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:607:

GCGAAGACCA	TCAAATGAAT	TGTCACAATA	CTCGAATAAT	GCAAGACACA	GAAAAGGATG	60
ATAACAATAA	TGACGAATAT	GACAATTACG	ATGAACTGGT	GGCCAAGTCA	TTGTTAAACC	120
TCGGCAAAAT	CGCTGAGGAT	GCAGCCTACC	GGGCCAGGAC	TGAGTCAGAA	ATGAACAGCA	180
ATACCTCCAA	TAGTCTGGAA	GACGATAGTG	ACAAAAACGA	AAACCTGGGT	CGGAAAAGTG	240
AGTTGAGTTT	AGACTTAGAC	AGTGATGTTG	TTAGAGAAAC	AGTGGGGCTC	GAG	293

## (2) INFORMATION FOR SEQ ID NO:608:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 313 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:608:

GAATTCGGCC	TTCATGCTTA	CTCAGAAAGC	CACTGCCCCA	AACAAGCCAC	CTGCATTATC	60
AAACACAGAG	AAGAGGAATC	ATTCCGCCTT	TTGGGGACCA	GAGAGTCAAA	TCATTCTGT	120
GATGCCAGAT	AGTAGTTCCT	CAGGGAAGAA	CAGAAAAGAG	GAAAGTTATA	TATTTGAGTC	180
AAAGGTGAT	GGAGGAGGAG	GGGAACACCC	AGCCCCAGAA	ACAGGTGCAG	TGCTACCCCT	240
GGCGCTGGGT	TTGGCTATCA	CTGCTCTGCT	GCTTCTCATG	GTTGCATGCC	GACTACGACT	300
GGTGATCCTC	GAG					313

## (2) INFORMATION FOR SEQ ID NO:609:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 372 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:609:

GCCCATTCGG	GCCCCATCT	CACCCAAGAT	CCCCCAGAGT	CCAGGAGCTG	GACGGGGACA	60
CCCTCAGCCC	TCATAACAGA	TTCCAAGGAG	AGGGCACCCT	CTTGTCTTA	TCTTTGCCCC	120
TTGTGTCTGT	CTCACACACA	TCTGCTCCTC	AGCACGTCGG	TGTGGGGAGG	GGATTGCTCC	180
TTAAACCCCA	GGTGGCTGAC	CCTCCCCACC	CAGTCCAGGA	CATTTTAGGA	AAAAAAAAAT	240
GAAATGTGGG	GGGCTTCTCA	TCTCCCCAAG	ATCCTCTTCC	GTTCAGCCAG	ATGTTTCCTG	300
TATAAATGTT	TGGATCTGCC	TGTTTATTTT	GGTGGGTGGT	CTTTCCTCCC	TCCCCTACCA	360
CCCGTCCTCG	AG					372

## (2) INFORMATION FOR SEQ ID NO:610:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 119 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:610:

GGAGCTAAAT TTAAGAAATG CAACTAGCCA GGTGCTAAGA AGCTCAGTTA CACGTTTCTC 60  
 AAAAGTTGGC TGTTAGTTCC ATGACTCAGA GTGCACTCAA ATCATTTTAA TTA CTGAG 119

(2) INFORMATION FOR SEQ ID NO:611:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 474 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:611:

GAATTCGGCC TTCATGGCCT AGGTCCTGTT TGCCTATTTG AGCTGCTATT AGTGTGAGAA 60  
 GAAACTCAGA TGATAGTAGC AGAAACAGAA AGAGGAAGAG GCTACAAGAG ATGGTAGATG 120  
 CTGAACTTAA GGCATTTGAT AACCAATGGA TATAGAAAGA AAAGGAAATG AAAGGACAAA 180  
 AATGGCTCTA AGTTTTCAAA CTTGACTGAT GAGGAAAATA TTCACATCAA GAATGGACTG 240  
 AAGAAATAAG GAGGAGATGC TGGGTTAGGG TGAAAGGAGA TGAGCCCCAT TTTACATTGG 300  
 AAAGCTCTAT GGAACAACGG AAGTAGTAGT AGCTTTATAT TCCAGTATGC CAAATTCTCA 360  
 GCTCCAAGAC TCCAGCACTG TGTGCTCTAC AGTATGTTTT GTGATGTGCC TGAGTTTGG 420  
 TTTCTTTATT TCAATTAGGG ACTCTTCATA CCAGGGTCAG GGGTTATGCT CGAG 474

(2) INFORMATION FOR SEQ ID NO:612:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 283 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:612:

GAATTCGGCC TTCATGGCCT AGTTCCTGTG CTCTTGAAAG AACAAAGTTGA TGCTTGTA 60  
 GCTGTTTTGA TTATTTT TAG GCGCATGATA ATGGAGCTTA CAATGAATAA AAAGACATGG 120  
 GAACAGATGT TGCAAACTACT ACTCAGGATA ACAGAAAGCTG TCATGCAGAA GCCAAAGGAT 180  
 AAACAAATAA AGGACTTGTT TGCCAGAGC TTGGCAGGGT TACTATTTAG GACGCTCATG 240  
 GTAGCTTGGA TCCGAGCAAA CCTCTGTGTG TACATTTCTC GAG 283

(2) INFORMATION FOR SEQ ID NO:613:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 280 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:613:

GAATTCGGCA CGAGGGGCCG CCGTTTTTTT TTTTTTTTTT TTTTCAGGTG CACATAAAGT 60  
 TAGTTTATTA ATGACTATAT TTTGAAGCCA GCCATTTTGT CCAATATTTA AATAACAAGC 120  
 TGTTTAATAT TAAAGCAGAA AGTACTGCCA CATTGTGACA GAAGTACAGC TTTATCCATA 180  
 AACCTTCAC ACAATTATAC ATTAAATGCT ATTTTATTT AAGCAAGGCA CCCCTACTTG 240  
 TTCTAAATA TGGGATGTAC TACACCATGT ATTACTCGAG 280

## (2) INFORMATION FOR SEQ ID NO:614:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 406 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:614:

```

GAATTCGGCC AAAGAGGCCG GAATTGGGCC CTCGAAACCA AGAATTCGGC ACGAGGGAAT      60
GAAATTAGCT AACAGCCTTC AGCTACAGAA ACTTTGGGAT CCAGACAGCA TTTGAGCTGA      120
CGCCACGCCC TTCTCAGGCA GCCCCACAG TGAAGGAGGA GGATCTAGAA GGGCCTGGCC      180
ATTTTCTCTC AATGTAGGGT CCCTCTGATG GGAATCTTT GTCTGGAGAC CCGAGCTGAG      240
ACTTTGTCTC ATTGGCATCT CTGTCCCTGC TCAATGCTGC TTTCCATGCT CCCTTTTCTA      300
TCACAGACAT CATAGCCTGA AATCTTTCCA CACCCAATAC TGCTTCCTAT ACCCCTTAGC      360
CTTTCCTGAT CTCATTGAGG TTACCATTTT TCCTCCGTCG CTCGAG                      406

```

## (2) INFORMATION FOR SEQ ID NO:615:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 369 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:615:

```

GAATTCGGCC AAAGAGGCCG GAATTGGGCC CTCGAAGCCA AGAATTCGGC ACGAGGCTTT      60
TTTAGGTAAT TCTTTGTA CTGTCTGTCT ACCTCTCCTC ACACCCAGC ACCCCCATC      120
TTTTCAAACC TTGGTATCTG TTGGGTGAAC AGTATAATCT TTTCATCTGC TTTTAGAATG      180
TGGGATAATT CCAGTACCTA CTTTTTTTTT TTTTTTTTGC TGAATCCAAA GATATATAAA      240
TAAATATAT ATATTTTATA AAGATCAGAA TGATATAAAG GAGATACATG TTTCTTCCTT      300
TAAAAAATAA ACGGAAGTTA CATTGTTAAT GTTCATATTA TGATGCGAAT TCTCTGGTTC      360
CTCCTCGAG                      369

```

## (2) INFORMATION FOR SEQ ID NO:616:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 461 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:616:

```

GAATTCGGCC TTCATGGCCT AGGATGTCTG AGGTCTTAAC CTGCCCAGTC CTGAATTCCT      60
GGGACTTCAA CGACTCTCTC TCTGCCAAAT GATGTGAGTC TTTAGGTAGA GTTATAGCGC      120
AAAGGGCTAC TATCAATGTT ATTAAGCATA AATTATGACT AGAGCCACAG AATGATTTCC      180
TCATTAATCC AAAAAAAAAA AAAAAGCAAA CCACTCTTTT ACTTTATGAT GAGCACATAA      240
ACAGTTTTTT TTTCTTTTTA TTTATCTACT TTTACTTACT TAAATTTTAG AGATGGGGTC      300
TTGCTATGTT GCCCAGACTA GACTCAAACT CTGGGGCTCA AGTGATCCTC TAGCCTCAGC      360
CTCCCAAGTA GCTGGGACTA CAGGAAGGAG CTACTGCACC TGACTCAATT TTTTTTTTTT      420

```

CTGAGATGGA GTCTCACTCT GTGACCCAGG CTTGTCTCGA G

461

## (2) INFORMATION FOR SEQ ID NO:617:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 391 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:617:

GAATTCGGCC	TTCATGGCCT	ACATCAATAA	CAGCCAAACT	GAGACACATA	ATGTTTTCTA	60
CGTCCAAGAG	GCTAAATGTG	AGAATCCAGA	ATTTGAGAGA	AATGTGGAGA	ATACATCTTG	120
TTTCATGGTC	CCTGGTGTTT	TTCCTGATAC	TTTGAACACA	GTCAGAATAA	GAGTCAAAAC	180
AAATAAGTTA	TGCTATGAGG	ATGACAAACT	CTGGAGTAAT	TGGAGCCAAG	AAATGAGTAT	240
AGGTAAGAAG	CGCAATTCCA	CACCTACAT	AACCATGTTA	CTCATTGTTC	CAGTCATCGT	300
CGCAGGTGCA	ATCATAGTAC	TCCTGCTTTA	CCTAAAAAGG	CTCAAGATTA	TTATATTCCC	360
TCCAATTCCT	GATCCTGGCA	AGAATCTCGA	G			391

## (2) INFORMATION FOR SEQ ID NO:618:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 306 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:618:

GAATTCGGCC	TTCATGGCCT	ACGTGAAGAC	AAGATGAAGT	TCACAATTGT	CTTTGCTGGA	60
CTTCTTGAG	TCTTTCTAGC	TCCTGCCCTA	GCTAACTATA	ATATCAACGT	CAATGATGAC	120
AACAACAATG	CTGGAAGTGG	GCAGCAGTCA	GTGAGTGTCA	ACAATGAACA	CAATGTGGCC	180
AATGTTGACA	ATAACAACGG	ATGGGACTCC	TGGAATTCCA	TCTGGGATTA	TGGAAATGGC	240
TTTGCTGCAA	CCAGACTCTT	TCAAAGAAG	ACATGCATTG	TGCACAAAAT	GAGCAAGGAA	300
CTCGAG						306

## (2) INFORMATION FOR SEQ ID NO:619:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 370 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:619:

GAATTCGAAG	CCACGCCGGA	GCTGTACCTT	GGAAGGAGGA	GCCAAAAATT	ATGCTGAGAG	60
TGATCACAGT	GAAGACGAGG	ACAATGACAA	CAATAGCCCC	ACCGCAGAGG	AGTCCACGAA	120
GAAGAATAAG	AAGAAACCAC	CGAAAAAATA	GTCTCGTTAT	GAAANGACAG	ATACCGGTGA	180
GATAACATCC	TACATCACTG	AAGATGATGT	GGTCTACAGA	CCAGGAGACT	GTGTGTATAT	240
CGAGAGTCGG	AGGCCAAACA	CACCGTATTT	CATCTGTAGC	ATTCAAGACT	TCAAACCTGGT	300
AAGCGTTTTT	AATGTGCTGT	TCACTCTGCT	CTGTATTCTC	TCTTTTCCA	GTTCCATTGG	360

CGCTCTCGAG

370

## (2) INFORMATION FOR SEQ ID NO:620:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 183 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:620:

GAATTCGGCC TTCATGGCCT AAAAACCTTA CAACTAAAGC AAATAGACTT TTCAAGAATT	60
TAAATAGGAT TCCTTCCCTT TAATCAATTA ATTATCCACT TTGTCATGGT GTCAACCTGT	120
AATTTTCATGG TTTTGTGTGT GTGTGTGTGT GTGACAGAAA TTTACAAACA ATGTGATCTC	180
GAG	183

## (2) INFORMATION FOR SEQ ID NO:621:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 565 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:621:

GAATTCGGCC TTCATGGCCT ACAACTAATT TGATCATATT AACAGAGGT TGGTTTTTAA	60
ACCAAGCAGT ATAAATATAA ATACAGCCTT GGGTAGATCA TAGTCAAACCT ATCCAAATGC	120
AACCTCAGCT TCAAAGATTG TAAAGTCTTT TCTTCCCTT TTTCTCCTT CCTTTTTTTT	180
TCCTCCAAAT ATTTATTTAC TACCTACCAT GTGCCAGGCA CTGTGATGGG CTATGAGGAT	240
GCAGTGGGGG ATAGGACAGA TGCCATCCCT GCCCTGAGGA GACTTGCACT TTATTGGAAA	300
AGATGGACAT CGTAAATAT ACAATCATAA AAATAAAAAAT TACATAAATA ATTCACTACT	360
TCAACTTGTG GGAGGTACAG CAGTTTATAA TAATAACATC CCTCCACCT TCTTGAGAGA	420
GTCATTGGTT GCCCCACTTC TCTTCATGAA TGAGAGGACA TGATTAAACC TATCATTTCA	480
GGTAGGAGTT TACTGTGGGA TGGATATCAA TCTTCTATTA ATATGTTTGT GCTCATGCTC	540
TCCATTTTGC AATGGACGTC TCGAG	565

## (2) INFORMATION FOR SEQ ID NO:622:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 294 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:622:

GAATTCGGCC TTCATGGCCT AAAATGAAAG CTATGTCTTA GAACCAATGA AAAGTGCAAC	60
CAACAGATAC AAACCTCTCC CAGCGAAGAA GCTGAAAAGC GTCCGGGGAT CATGTGGATC	120
ACATCACAAC ACACCAAACC TCGCTGCAAA GAATGTGTTT CCACCACCCT CTCAGACATG	180
GGCAAGAAGG CATAAAAGAG AGACCCTCAA GGCAACTAAG TATGTGGAGC TGGTGATCGT	240
GGCAGACAAC CGAGAGTTTC AGAGGCAAGG AAAAGATCTG GAAAAAGTCT CGAG	294

## (2) INFORMATION FOR SEQ ID NO:623:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 492 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:623:

```

GAATTCGGCC TTCATGGCCT AGCTTCTGGT AATGGCGGAC TAGATGATT AGAGCAACCC      60
ACCCATTGAA AAGAACTACA AAACGTCAGA TCTCTAAAAG GCTACAAAAT TAATACAATT      120
GTGAGGAATT GCTAGGTTAT ACTACAAGAG AACAGAAGCA TCCAGAGAGG TAAGCCTAGG      180
ACTTAAAACT ATATTTTAT TGAAGGTATC TGTGGTTGAG TAATAAGCCT GTGCTAAACT      240
GCGTGGAAC TATGGCACAT TCAAGGCACT ATAGTAACAG AAGTCAGAGC CCAAGGCCCA      300
TCAAAGGGG TGGAGTGTTT CCTGACAAAC CATCACCCAT AGTATGCTGG GAACCGCAAA      360
TGTTTATACC TTCAGGTAA TTGTAATCAA AAAATATACT AGCCCTTACA AAGTCTTGTA      420
GCTTGGCTTT GCATCATCTG GGTGGACTAG TGAAGTGTAA GTTCTGAACA AATATTATGG      480
AGGCAACTCG AG                                     492

```

## (2) INFORMATION FOR SEQ ID NO:624:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 496 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:624:

```

GAATTCGGCC TTCATGGCCT ACTTCCCTGA GCTGGGGTTT CCCTGCTTGT CCAGTTGTGA      60
GCTGTCTCTCG GTGTTACCGA GGCTGTGCCT AGAGAGTGGA GATTTTGTAT GAAAGGTGTG      120
CTCGCTCTCT GCGTCTCTATC TTCTCTCTCC TCCTTGTTC TGC AAACCAC AAGATAAAGG      180
TAGTGGTGTG TCTCGACCCC ATCAGCCTCT CACCCACTCC CAGACACACA CAAGTCTCTCA      240
AAAGTTTCAG CTCCGTGTGT GAGATGTGCA GGT TTTTCT AGGGGGTAGG GGGAGACTAA      300
AATCGAATAT AACTTAAAT GAAAGTATAC TTTTATAAT TTTTCTTTT AAAACTTGGT      360
GAAATTATTT CAGATACATA TTTTAGTGTC AAGGCAGATT AGTTATTAG CCACCAAAAA      420
AAAGTATGT GTACAATTG GGGCCTCAA TTTGACTCTG CCTCAAAAAA AAGAAATATA      480
TCCTATGCAT CTCGAG                                     496

```

## (2) INFORMATION FOR SEQ ID NO:625:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 412 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:625:

```

GAATTCGGCC TTCATGGCCT ACAAATGA TTATGACAAG ATTGTCTACT ATGAAGCAGG      60
GATTATTCTA TGCTGTGTCC TGGGGCTGCT GTTTATTATT CTGATGCCTC TGGTGGGGTA      120
TTTCTTTTGT ATGTGTCGTT GCTGTAACAA ATGTGGTGGA GAAATGCACC AGCGACAGAA      180

```



GGAAAATGGG	CCCTTCCTGA	GGAAATGCTT	TGCAATCTCC	CTGTTGGTGA	TTGTATAAT	240
AATAAGCATT	GGCATCTTCT	ATGGTTTTGT	GGCAAATCAC	CAGGTAAGAA	CCCGGATCAA	300
AAGGAGTCGG	AAACTGGCAG	ATAGCAATTT	CAAGGACTTG	CGAACTCTCT	TGAATGAAAC	360
TCCAGAGCAA	ATCAAATATA	TATTGGCCCA	GTACAACACT	ACCAAGCTCG	AG	412

## (2) INFORMATION FOR SEQ ID NO:626:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 372 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:626:

GAATTCGGCC	TTTCATGGCCT	AGTTAGGTGG	CTTTAGTGT	ATTGACAAAG	TTGTGAACCC	60
ATTATCACAA	TCTAATTTTA	GAACATTTTT	ATCAGCCTCC	TTGCCCCCTA	AAAAAACCCA	120
GTACTTTTTA	CCAATCCAGT	CATTTAAAC	TTACTACATA	TTTAATAGAT	GGATAGATAG	180
ACAGGAGGAT	GGACAGACTG	AAGGAAGAAT	GGATGATTAT	GTATAAATAA	ATGAAAAAAC	240
AAAAACTATC	CCCAAATCAT	AAGGGTATAC	GCAATGCTTT	CCTGTGGCAA	AAGATTCCGA	300
ACATGTACAG	CAGATTTTTT	TTCAAATGTT	CATAATTCTA	AATTCCTCAA	ATGGTCTACA	360
CAACTTCTCG	AG					372

## (2) INFORMATION FOR SEQ ID NO:627:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 575 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:627:

GAATTCGGCC	TTTCATGGCCT	AGGAGAAAGG	AAGGAAGCA	TTACTGGGTT	ACTATGCACT	60
TGCGACTGAT	TTCTTGGCTT	TTTATCATTT	TGAACCTTAT	GGAATACATC	GGCAGCCAAA	120
ACGCCTCCCG	GGGAAGGCGC	CAGCGAAGAA	TGCATCCTAA	CGTTAGTCAA	GGCTGCCAAG	180
GAGGCTGTGC	AACATGCTCA	GATTACAATG	GATGTTTGTC	ATGTAAGCCC	AGACTATTTT	240
TTGCTCTGGA	AAGAATTGGC	ATGAAGCAGA	TTGGAGTATG	TCTCTCTTCA	TGTCCAAGTG	300
GATATTATGG	AACTCGATAT	CCAGATATAA	ATAAGTGAC	AAAATGCAAA	GCTGACTGTG	360
ATACCTGTTT	CAACAAAAAT	TTCTGCACAA	AATGTAAAAG	TGGATTTTAC	TTACACCTTG	420
GAAAGTGCCT	TGACAATTGC	CCAGAAGGGT	TGGAAGCCAA	CAACCATACT	ATGGAGTGTG	480
TCAGTATTGT	GCACTGTGAG	GTCAAGTGAAT	GGAATCCTTG	GAGTCCATGC	ACGAAGAAGG	540
GAAAAACATG	TGGCTTCAAA	AGAGGGGATC	TCGAG			575

## (2) INFORMATION FOR SEQ ID NO:628:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 457 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:628:

GAATTCGGCC	TTCATGGCCT	AACAGGGTCT	TGCTCTGTCA	CCCGGGATGG	AGTGTAGTGG	60
CGCAATCACA	GCTCACTGCA	GACTCAGCCT	CCCAGGATCA	AGCAATTCTC	CCACCTCAGC	120
CTCCCAAGTA	GCTGGGACCA	CAGGTGCACA	CCATCATGCC	CAGCTAATTT	TTGTATTTT	180
TTGTAAAGAC	AGGTTTCACT	GTGTTACCCA	GGCTGATCTC	GAATCCCGT	ACTCAAGCAA	240
CTCCCCACCT	CAGCCTCCA	AAGTGCTGGG	ATTACAGACG	TGAGCCACAG	CGCCGGGCCC	300
CAAATCTAT	TTTAAATGTA	AAGAAACCCA	AAAGTAACAG	TTTGTAATAA	GAAAATTCAC	360
GTACTGTTTT	GTAGTAAATT	CTAAACACTG	TGTATCTTTG	TGTCTAGTTA	AATCCTAGGC	420
TTACAGCTAA	AATTCAATGA	GAAGGCAAGT	ACTCGAG			457

## (2) INFORMATION FOR SEQ ID NO:629:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 319 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:629:

GAATTCGGCC	TTCATGGCCT	AGAAAGCTAT	CATTTATGTA	GAGTTAATTG	TATATTAAGT	60
ACCATGCTAA	GTGCTTTGTA	TGTATTATTT	ATCTTTATAA	AAATCCTATG	AAATGAATAC	120
TGTTATTTTC	CCCCATTATA	CAGATGAAGA	TAGAGAAAGG	AAGAAAAGGG	AGGGAAAGAG	180
GAATACCATT	TCACTGAGCA	ATTTTACTGA	AATATTTTAT	GGAGCATTTG	TGGGTTTGT	240
TTGTTTGCTT	GTTTTGTTTT	TTTGTGTTT	TTTTTTTTTG	AGACAGAGTC	TCACCTTGTC	300
CCCCAGGCTG	GATCTCGAG					319

## (2) INFORMATION FOR SEQ ID NO:630:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 557 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:630:

ACGGTGAAAC	CCTGTCTGTA	CTAAAAATAC	AAAAAATTAG	CGGGGCATGG	TGGTGGGCAA	60
CTGTAGTCCC	AGCTACTCGG	GAGGCTGAGG	CAGGAGAATG	GCATGAACCC	AGGAGGCGGA	120
GCTTGCACTG	AGCCGAGATC	ACGTCACTAC	ACTCCAGCCT	GGGCGACAGA	GCGAGACTCC	180
GTCTCAAAAA	AAGAAAAAAC	CAAGACAAAA	CCAAAAATAA	CTTGTCTGT	TAAGTACAAT	240
ATCTGTGTTT	CTCAGGGACA	GTTTCTATTG	ACCATTGTTT	TTCTGTGCA	TAGACTATCC	300
TTTCCTTTTT	TTGTACATCT	TGTAATTTTT	GTTTTATTAA	AACTGGAATT	TTAAAAATAA	360
TGCAGTGTGG	CAACTCTACT	GCTTGATTTG	GCTCAAAGGT	ATATTATTTA	TTTTTTAATA	420
TAACAAACCA	ATATTTGGGT	TCTCTATTCT	ATAGTTTTAG	CATTTTGAAT	GCAACAACCTG	480
TCTTATTCAC	CATTTAATTC	TCAGTACTAC	CGTTTCTAGT	ACACAATATG	CACTTAATGA	540
ATATGAGGGT	CCTCGAG					557

## (2) INFORMATION FOR SEQ ID NO:631:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 462 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:631:

GAATTCGGCC	TTCATGGCCT	AGACCGTGCC	AGGTATTGAG	AGCGACCCTC	ACATTCCTAC	60
AGTGCTCTGT	GTGGCATCTT	AATGAAACTT	TATTCTCTCC	CCTTAAATGA	GAAAGAATAG	120
CTAGTTGTCA	TCCTTTCTGA	ACCGATTTTG	TCTTCAAAG	GTAGTAGTGT	ACCAGGCCTG	180
CTATTTTGCA	AAACGGTCTC	CACCAAAATC	GAATTACCTG	CCTCGCGGGG	CAGGCGTGTT	240
GACCAGGTGG	ACTCTAGAAG	TAGGTGGTTT	GCTTGGTTTC	TTTTCCTTTT	AAGGTTTCCC	300
TTTCTTCTTC	TTCTTTTCTG	TGTTTTTTTT	TTTTTTTTTT	TTTTTTCAAT	ATAGAAACTG	360
TCCCTAAGAG	AGGAAACCTT	TCTGGCCATG	TTATTCCAGG	AATCTTTTGT	CCCCTAAGTT	420
TGACCTTGTT	CTTTCGTTCA	CCCTTTACTC	TTGCATCTCG	AG		462

## (2) INFORMATION FOR SEQ ID NO:632:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 347 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:632:

GAATTCGGCC	TTCATGGCCT	ACATAAAATC	AGTTGACTAT	TGTGCAACAT	AGAATTATTG	60
TTTGTGTGAA	ATTACCGCTG	AAGGACCTTG	CCTACATTCA	AGGGTCTATT	TTTATTTTTC	120
CAGGTATTCT	TTCACATTAG	TGACATTATA	GTCTAGTACA	ACTGCTTGAT	AATTTGGAGA	180
AACTAACATT	AATTTTAGAT	AGTGATTGAT	AAAATTTGGC	CTGCCAAATG	CATTTTAAAA	240
ATAATTCTAG	GATTTATCTA	TGCTCATTTC	TAGTATACCT	CATGATATAT	AAGACATCTT	300
TCTTTTGTCA	TATCAGTTCT	TCAGATACTA	AGACAGAGGT	CCTCGAG		347

## (2) INFORMATION FOR SEQ ID NO:633:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 455 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:633:

GAATTCGGCC	TTCATGGCCT	AGGTGGTGCA	ATAATTATAA	ATGTTGCCAG	TCAATGCCAA	60
CCAGTGTCTG	ATTGGCTTCC	TGTGCATGTC	CAATTTCTCT	TGTGACACTG	TGTTGGTGCC	120
AGAGCTTCTG	AATCTTCTTG	AATCGCTCTT	TGCATAAATG	TAAAGGATTT	CCCCGTCTGA	180
GTCCCTGGTC	GGTCTCCCA	TAATCATCAA	GGTAAGGAGG	AGAATAAAAA	CAGCCTTTGG	240
TTTTGCCAGC	TAAAAATAGC	ACCTGACATT	CCCGTACTCT	CAGGAAGATG	CCCCTCCAG	300
AGCCACAGGA	GTAGGTGTGA	GCTGTGCAGG	CTCCTACATC	CTCCCCTTCC	AGTTCAGTCT	360
GGCAGCAGTA	ACTCTGGGAG	CACAGCAGAG	ATCCGCACAC	AAGGCACAGA	GTTGGGGCTC	420
TGCTCTTATC	ACCACCTGAT	TCGGGCACC	TCGAG			455

## (2) INFORMATION FOR SEQ ID NO:634:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 484 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:634:

GCATGAAGGC	CGGCCTTCAT	GGCCTACAGG	CTATGTACTG	TATGATTCCA	AATATGACAT	60
TCTGGAAAAG	GCAAAACCAG	GGACACAGTG	AAAAGATCAG	GGGTTGAGAG	GGGAAAAAAG	120
GAGGGATGAG	TAATCAGAAC	ATACAAGATT	TTTTTAAGGC	AGTGGAACCG	CTCTGTATAA	180
TACCATAATA	GTGGATACGT	GTCATTATGC	ATTTCATCCA	ACTCCTAGAA	TGTACAGCAC	240
AAATAGTGAA	CTGTAATGTA	AATGCAGTGT	GTAGGTGTTT	ATACAAAAAA	ACAGATGGAA	300
AGATTTTGTA	CATAGCTCTA	TGTGAAAATG	TATTTATTTA	TTAAGAGCAA	AAATATGCCT	360
ATTTCAAATT	TCCACGTACG	ACTTTTTCAT	AAAGACACGA	TCCACTGAAA	TAACCCCTCCA	420
AAAGAATTTT	TATAATCTAT	AGCAGGTGTA	CATGTTGTTA	ATCAAGTGCT	TAATGTTACT	480
CGAG						484

(2) INFORMATION FOR SEQ ID NO:635:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 487 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:635:

GAATTCGGCC	TTCATGGCCT	ACCCACCAG	AGGACAGACG	TTGAAAGATA	CCACGTCCAG	60
TTCTTCAGCA	GACTCAACTA	TCATGGACAT	TCAGGTCCCG	ACACGAGCCC	CAGATGCAGT	120
CTACACAGAA	CTCCAGCCCA	CCTCTCCAAC	CCCAACCTGG	CCTGCTGATG	AAACACCACA	180
ACCCGAGACC	CAGACCCAGC	AACTGGAAGG	AACGGATGGG	CCTCTAGTGA	CAGATCCAGA	240
GACACACAAG	AGCACCAAG	CAGCTCATCC	CACTGATGAC	ACCACGACGC	TCTCTGAGAG	300
ACCATCCCCA	AGCAGAGACG	TCCAGACAGA	CCCCAGACC	CTCAAGCCAT	CTGGTTTTC	360
TGAGGATGAC	CCCTTCTTCT	ATGATGAACA	CACCCTCCGG	AAACGGGGGC	TGTTGGTCGC	420
AGCTGTGCTG	TTCATCACAG	GCATCATCAT	CCTCACCAGT	GGCAAGTGCA	GGCAGCAGTC	480
TCTCGAG						487

(2) INFORMATION FOR SEQ ID NO:636:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 331 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:636:

GAATTCGGCC	TTCATGGCCT	AATTTTATTT	AAATTTTAT	ATTTATATAT	TTTATTAA	60
ATTTTCATGA	AATGGCCAAG	CAGGGTTTAA	TATAAAATGG	AAACAGGGTT	TATCTCAGAA	120
ATTGGTGGC	TAAATTCCTT	GTATCCCGTC	TTATCTAGGG	ATGTTGTTTG	TTTCAAGGTT	180
CTACCTTGAG	AGGAGCCTGT	CATTTTCTTT	TTTGTGTGCT	GCTTTGCCTA	GTTGACATCT	240
TGGCTTTATG	TGCTCCTGTT	GAATGCATTG	GGAAATTTTC	TTTCTTCTTT	CTATGTCCTG	300
AAATAGCTTA	TATAAGAGGG	AAACTCTCGA	G			331

(2) INFORMATION FOR SEQ ID NO:637:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 625 base pairs

(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:637:

GAATTCGGCC	TTCATGGCCT	ACAAAAATAC	TTTCATTTGT	TTTGCTATTA	CTAGTTTCTC	60
ATTTTTTATT	GCACTTGCAA	TCATTTTAGG	AATATCCTCA	AAATATGCTC	CAGATGAAAA	120
TTGCCCAGAT	CAAAATCCTC	GTCTCAGGAA	TTGGGATCCA	GGACAAGATT	CTGCAAAGCA	180
AGTTGTTATC	AAGGAGGGGG	ATATGCTCCG	TCTGACCTCA	GACGCCACCG	TGCATTCTAT	240
AGTCATTGAG	GATGGAGGAC	TGCTTGTATT	TGGGGACAAT	AAAGATGGAT	CCAGAAATAT	300
TACTTTGAGG	ACTCATTACA	TCCTGATCCA	GGATGGTGGG	GCGCTTCATA	TTGGAGCAGA	360
AAAATGCCGC	TATAAATCCA	AAGCGACAAT	TACCTTGTAT	GGCAAGTCAG	ATGAAGGTGA	420
AAGTATGCCA	ACATTGCGCA	AAAAGTTTAT	TGGTGTGGAA	GCTGGCGGGA	CACTGGAGTT	480
ACATGGGGCA	CGGAAGGCAT	CGTGGACGTT	GTTGGCAAGG	ACCCTGAATT	CCTCAGGCTT	540
GCCGTTTGGG	TCCTATACCT	TTGAAAAGGA	CTTTTCCCGG	GGCCTCAATG	TGAGGGTCAT	600
TGACCAAGAC	ACGGACGCTC	TCGAG				625

(2) INFORMATION FOR SEQ ID NO:638:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 506 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:638:

GAATTCGGCC	TTCATGGCCT	AGAGAACTTT	TTGAGGGCTT	TTTTTTTCC	CCTTTTAAGC	60
TATTTTGAT	GTAGACTTAA	TTTTTCTAAT	TTTGCCACTT	CTGGCAATCT	GAAATCATT	120
AAAAGGACAC	AATTCAAATT	TATGTTAAAG	GTCATAAATT	TTGCCCAGGA	CTCAATATTT	180
TCTCATTTTT	CCAAAAATAA	AATCTTATTT	ATGCATTATA	GCGACTTGGT	TTTCACTTTA	240
TCTTGAATTA	TAGCTTTTAA	GAGGCAGAAA	GAATCCTTTT	TATAAGGACA	GTCTCAAGTG	300
TACACACAGA	TTAAATATTA	CAAAATATAGG	TTGCAAAATA	AACTTTTCAA	ATGTGGGATT	360
ATAGGAAGCA	AAAGAGAACC	AACCAAAGCA	TCAACAAATT	TACCTTTTGT	TTTTTTTAA	420
AGATTTTCT	TATTTCTCTA	GCTGCTTTTG	CATTAGCATT	AAATAACATT	CTTATTGGAG	480
TGGTATGTGC	ATGGCCCAAG	CTCGAG				506

(2) INFORMATION FOR SEQ ID NO:639:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 388 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:639:

GAATTCGGCC	TTCATGGCCT	ACTCCAGCTT	TATTATCTCA	GCTACCATCA	AACTATATTA	60
CATCAAATTA	TCATCATTAC	TCTCCTGCAC	AGTAACTTTC	TTTCTGCTCC	ACTAAGAAGC	120
TTACTCCCAT	CCTGTTTATT	CTCTATATCG	TAGCTGGACT	AATCTTTTCA	AAGTGCAAAG	180
CCAATCACAA	TACCACCTGC	TTAAATCCA	TCAGTGGCTA	ACTTTTCATT	CTAGGACGAA	240
AAGAAAATTC	TATAACATGA	CTTCAAAGGC	TCTGCATGTC	CTTCTATTTC	TCTTGTCTCT	300

TCTAGTCTTT TCTTTGATGG TCTCCACTCC AGCCCTACTG GCTTCTTTCT GGAATCAATG 360  
 TCACCCACAA CCCGTCACGC CACTCGAG 388

(2) INFORMATION FOR SEQ ID NO:640:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 385 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:640:

GAATTCGGCC TTCATGGCCT ACTCCGCTCT GGCCCAAGA GAGGCCAAGA AGGACGAGCC 60  
 CAAGAGCGGC GAGGAGGCGC TCATCATCCC CCCGACGCC GTCGCGGTGG ACTGCAAGGA 120  
 CCCAGATGAT GTGGTACCAG TTGGCCAAAG AAGAGCCTGG TGTTGGTGCA TGTGCTTTGG 180  
 ACTAGCATTG ATGCTTGCAG GTGTTATTCT AGGAGGAGCA TACTTGTAACA AATATTTTGC 240  
 ACTTCAACCA GATGACGTGT ACTACTGTGG AATAAAGTAC ATCAAAGATG ATGTCATCTT 300  
 AAATGAGCCC TCTGCAGATG CCCGAGCTGC TCTCTACCAG ACAATTGAAG AAAATATTAA 360  
 AATCTTTGAA GAAGAAGAGC TCGAG 385

(2) INFORMATION FOR SEQ ID NO:641:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 392 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:641:

GAATTCGGCC TTCATGGCCT AGCAAGGAGA ACTATTGTCT TATGATCAGC TTTGCCATCT 60  
 TTCTGTCTCT TATCATGTTG GTGGAGGTGG CCGCAGCCAT TGCTGGCTAT GTGTTTAGAG 120  
 ATAAGGTGAT GTCAGAGTTT AATAACAAC TCCGGCAGCA GATGGAGAAT TACCCGAAAA 180  
 ACAACCACAC TGCTTCGATC CTGGACAGGA TGCAGGCAGA TTTAAGTGC TGTGGGGCTG 240  
 CTAATACAC AGATTGGGAG AAAATCCCTT CCATGTGCGA GAACCGAGTC CCCGACTCCT 300  
 GCTGCATTAA TGTTACTGTG GGCTGTGGGA TTAATTCAA CGAGAAGGCG ATCCATAAGG 360  
 AGGGCTGTGT GGAGAAGATT GGGGGGCTCG AG 392

(2) INFORMATION FOR SEQ ID NO:642:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 132 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:642:

GAGTTGAAGT GGCCAAAAA TTATAACACT CTCCTACTTT CATATCTTGA TTTTAATTTT 60  
 TTCCCTTACT TGTATTTTAT TTCTGAGTGG CTAATGGATC TTAGTCTAAG AACTGGAGGT 120  
 GGAGAACTCG AG 132

## (2) INFORMATION FOR SEQ ID NO:643:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 256 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:643:

```
GCACAAAGAC GCATTTCATC TGAGTTTCCC TGAAAGCTAG AATAAGTTTG CTGGTGTGAC      60
CTGGGATCCT GTCTTCTATA GCTTTGTATC AAGCAAACCTC AGCATTGTGT CTTGAATGCA      120
TGTCATGTGC AGCCTGCGTT TATGTGCGAC TGAGCACTTG GGTGGGGACA TCTTAAGGCT      180
GTTTATATT CTTTTTCATG TGTTGTTGTT GTTGTGTTG TTGTTGTTTT GGAGAGAGTC      240
TCGCCCAAAG CTCGAG                                     256
```

## (2) INFORMATION FOR SEQ ID NO:644:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 447 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:644:

```
GTGCTCGCAG CCNTGGTGGC CTGGCGCTCG GCGTNCCTTG TCTGCCTCGC TTTCTCCTTG      60
GCCACCCTGG TCCAGCGAGG ATCTGGGGAC TTTGATGATT TTAACCTGGA GGATGCAGTG      120
AAAGAAACTT CCTCAGTAAA GCAGCCATGG GACCACACCA CCACCACCAC AACCATAGG      180
CCAGGAACCA CCAGAGCTCC GGCAAACCT CCAGGTAGTG GATTGGACTT GGCTGATGCT      240
TTGGATGATC AAGATGATGG CCGCAGGAAA CCGGTATAG GAGGAAGAGA GAGATGGAAC      300
CATGTAACCA CCACGACCAA GAGGCCAGTA ACCACCAGAG CTCCAGCAA TACTTTAGGA      360
AATGATTTTG ACTTGGCTGA TGCCTGGAT GATCGAAATG ATCGAGATGA TGGCCGCAGG      420
AAACCAATTG CTGGAGGATG GCTCGAG                                     447
```

## (2) INFORMATION FOR SEQ ID NO:645:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 285 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:645:

```
GCTCAGCAAC ATTTTAGGAA CAACATTGGT GAGTATATGA GAATAGCCGT GACCTCCATA      60
TTTCATCAGC CGGGTTTTCG TATGTATGTC ATGTGCTACC AGAATTCGAT CTTACAGCC      120
CTCTTCCACC AGGAGACGCA CCCTGTGAAA AATGTTAACT CATTAGATGT CATTGTCTT      180
TCATTTTCGC TTTTCAGGAT GCTTTCAACT TTTTACTCAT TAACCTATTG TGCTTGTCGT      240
AAAGATACTG ACTTCTACTG TGGCGTGTGT ACTGAGAGAC TCGAG                                     285
```

## (2) INFORMATION FOR SEQ ID NO:646:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 257 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:646:

```

GGAGATTGGA AGAAGAATTG AATGAAAGGA TGATTCAAGC AATTGATGGG ATTAATGCAC      60
AGAAGCAATG GCTCAAGTCT GAAGACATTC AGAGAATCTC ACTGCTTTTC TATAACAAAG      120
TACTAGAAAA AGAGTACCGG GCCACGGCAC TGCCAGCGTT CAAGTATTAT GTGACTTGTG      180
CCTGTCTCAT ATTCTTCTGC ATCTTCATTG TGCAGATTCT CGTGCTGCCA AAAACGTCTG      240
TCCCGGGCTA TCTCGAG                                         257

```

## (2) INFORMATION FOR SEQ ID NO:647:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 296 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:647:

```

GGGGCAGCAG TAAATCCAG GCGCGAATGG AACAGCAGCC CACTCGTCCT CCACAGACGT      60
CACAGCCACC ACCACCTCCA CCACCTATGC CATTCAGAGC TCCAACGAAG CCTCCAGTTG      120
GACCCAAAAC TTCTCCCTTG AAAGATAACC CGTCACCTGA ACCTCAGTTG GATGACATCA      180
AAAGAGAGCT GAGGGCTGAA GTTGACATTA TTGAACAAAT GAGCAGCAGC AGTGGGAGCA      240
GCTCTTCAGA CTCTGAGAGC TCTTCGGGAA GTGATGACGA TAGCTCCAGA CTCGAG      296

```

## (2) INFORMATION FOR SEQ ID NO:648:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 324 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:648:

```

GTGCANATGT ACGGTGACCA CCTGGCCCTT GACCGGGCGG CTCGAACCTG GCGGCCCTGG      60
GACCAGCGTC TTCTTCCTCA ACAGCCCGTT CCCCAGAATG TCCAGCCACT CTTCTGGGGC      120
CGGGGCTGGG GCGGGCTCGG GCTCCATGGC AGCAAGGAAC TCTCGGGCCA GGGCCCCAGG      180
CTGCTCANCC TCCTCCGCCG GGGGTGTGCC CATGTCCTCC AGCGGTGGCA GCTCACTCAG      240
GTCATCCTCT TCCTCCTCTT CCTCCTCCTC TTCCTCCTCA CCCTCTGCAT CCTCAACCCC      300
ATCCAGTACC TCGAAGTCCT CGAG                                         324

```

## (2) INFORMATION FOR SEQ ID NO:649:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 309 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double



(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:649:

GAATTCGGCC	TTCATGGCCT	ACTTCCTGAT	ACAGATACAT	TTACTACAGA	AAATTTCCTT	60
TATAGGTGTA	AATTTCTGTT	TACAACAGGC	GAGTCGAAAA	ATAATAAGAA	CAAAAGGAAA	120
AAAAGCAGTC	ATACTTTATT	TTAGGCAGTT	GAGGGGTAGC	TGAATAAGTT	ATCCTGTGTT	180
GTTTGTTTCT	GTTACTTATA	GCTCAAAGTC	ATCAATATGC	CAGGGTGGCA	TGTTTGGGGA	240
TGGTGCATTC	TTGTCTTTTG	CAGTCATTTA	TCAGGGTGGC	GTTTCCTAAA	TTCTAACACA	300
GACCTCGAG						309

(2) INFORMATION FOR SEQ ID NO:650:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 309 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:650:

GGTGACGCCT	GCTTCACATC	TCTAATGAAC	ACCCTCATGA	CGTCGCTACC	AGCACTAGTG	60
CAGCAACAGG	GAAGGCTGCT	TCTGGCTGCT	AATGTGGCCA	CCCTGGGGCT	CCTCATGGCC	120
CGGCTCCTTA	GCACCTCTCC	AGCTCTTCAG	GGAACACCAG	CATCCCAGAG	GTTCTTCGCA	180
GCTGCCATCC	TCTTCCTATC	ACAGTCCAC	GTGGCGCGGG	CCACCCCGGG	CTCAGACCAG	240
GCAGTGCTAG	CCCTGTCCCC	TGAGTATGAG	GGCATCTGGG	CCGACCTGCA	GGAGCTCTGG	300
TTCTCTGAG						309

(2) INFORMATION FOR SEQ ID NO:651:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 390 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:651:

GCAAGGGCAG	GCGGGTCCCC	CAGTCCCGCC	ATTACGGGTT	GTCAGACCGT	CTGCGTGTGG	60
CAGGGCTCCC	AAGGGCAGGC	GGGTCCCCCA	GTCCCGCCAT	TACGGGTGTT	CAGACCGTCT	120
GCGTGTGGCA	TTTTTTGGCT	TATAAGCTTC	ACCCACTCAC	CCCCAACCCA	CACCCACAT	180
CCCCCTGCCG	GCAGCCCTC	AACCTAAGAA	GGCCAGAGCA	TATTTATTTT	CGGAGGGAGC	240
AGATTACTTC	TCCCAGAGAA	AGGAAAATCT	TGGAAAAGAT	TTAAAAACAC	AAATCTAAGC	300
CTTGACGGTT	TTTTTTTCCC	TTTGACCCC	CTTCCCATCT	CTTCAGAATT	TATTCCTCATG	360
GCTTTTTTTT	TTCTGTGCG	TGTTCTCGAG				390

(2) INFORMATION FOR SEQ ID NO:652:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 280 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:652:

```
GAATTCGGCC TTCATGGCCT ACCAAATTCC CTGCCTGTGC CTGCTGGGAC CAGACTCCGC      60
TGTCATGAGG GTGACATCCG CCACCTGTGC TCTTCTGCTG GCTCTGATCT GCAGCGTCCA      120
GCTGGGGGAT GCCTGCCTGG ATATCGATAA ACTGCTTGCG AATGTTGTGT TTGATGTGTC      180
CCAAGACCTC CTGAAGGAGG AGCTTGCTCG TTACAACCCC AGTCCCCTGA CAGAGGAGTC      240
CTTCCTCAAT GTCCAGCAAT GCTTTGCCAA TGTCTCTGAG      280
```

(2) INFORMATION FOR SEQ ID NO:653:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 253 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:653:

```
GGTGTTTGGC CACAGTTCGG GACCTATGGT AGAAAAATAC TCAGTAGCTA CCCAGATTGT      60
AATGGGTGGC GTTACTGGCT GGTGTGCAGG ATTTCTGTTC CAGAAAGTTG GAAAACCTGC      120
AGCAACTGCA GTAGGTGGTG GCTTTCTTCT TCTTCAGATT GCTAGTCATA GTGGCTATGT      180
GCAGATTGAC TGGAAGAGAG TTGAAAAAGA TGTAAATAAA GCAAAAAGAC AGATTAAGAA      240
ACGAGCTCTC GAG      253
```

(2) INFORMATION FOR SEQ ID NO:654:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 456 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:654:

```
GAATTCGGCC TTCATGGCCT AATTGAATTC TAGACCTGCC TCGGCCTCCC AAAGTGCTGG      60
GATTACAGGG GTGAGCCACC GCACCCAGCC TGTGAAATAC TATTTTATG GTAAGCTAGA      120
ATTTTAAAC TATTTCTTGC AAGTTTAGGA TTAAATGAAT TACATTATGT AAAATTACAT      180
CTTGTCTGT ATTACGTATT TGTATACAGT TGAATAGTTT TGGTAACACG TACCTTAGTG      240
CTTTACATTG ATTGGCTCAT TAATTTTATA TTTTGAGTAA TAATCATCTA ATTTTATTAT      300
TGTACAATTC AGTCTTAAAT TATGTTATGA TGTGAAAATG GTAGCTTTCT TGAGTGTATT      360
TATTTTGTGTA GTAGTGGGCA ATGTAATTAT CACACATAAA ATGAACTGTG AGACTTTTGA      420
GCCTGAAATA TTATTCATAT TATAATGCTC CTCGAG      456
```

(2) INFORMATION FOR SEQ ID NO:655:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 493 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:655:

GAATTCGGCC	TTCATGGCCT	AGTATATACA	TGCATTTAAT	TGTGATTTTA	TCACCTTTCC	60
CATTTCTTTC	CCCACAAGCT	GGCATTTTCAG	TAGTTGCTTT	TGAATAATGG	TTTTGGTTAC	120
CTGGGAAGGC	AGGCCAGAA	CCCATTTCCT	TGACTTGCAAG	TTCCGGGGCTG	TGTTTACATG	180
ACTGCTGTCT	AGCTGATGCA	TTTTTCACAT	TTGTCAACTC	TGGTTAGAAA	CAGGTCCTCA	240
GGAGTATTCT	CTAACCTGAT	ATTTTCTAAA	AAGATATGTT	GATTCAACTT	TGTTTAGCAT	300
CCTACTTTCT	AGATTGTGGG	GCTCATTTTG	CCAGGGCCAA	GCTACCAGAA	AAGTAGAAGT	360
GGAGATTACC	TGGTATGTAT	CTCTCTGGGT	GCCCCAGTTA	GAGCTGCCAC	AGCTCAGGAA	420
AAAGATGAGG	CATAACGACC	TTGAATGTAA	TTGGAGTAAG	TGACAAAATA	AGAACTACCC	480
TGGGAACTC	GAG					493

## (2) INFORMATION FOR SEQ ID NO:656:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 261 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:656:

GAATTCGGCC	TTCATGGCCT	ACTTGGCCTT	TGTTTGTGTT	TGCCTTTGTC	AGTCTCCTGC	60
CTCTGGATGG	GTTTCTGTTT	GTTTCCAAC	TGTCTGGGGC	TGTGCACCAT	GGAGACAGTG	120
TCCTGGGCTG	CCTCTAGCCT	GATCTGGTTA	GAATAAGCCC	CTCTCCTTTG	CATGCGTCTC	180
CAACCTGACA	TTTGAGCAT	CCAAAACAAA	TCATGACATT	CCCAAGTAA	GATAGAAACC	240
ACCGTCTCCA	CTCCACTCGA	G				261

## (2) INFORMATION FOR SEQ ID NO:657:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 621 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:657:

GAATTCGGCC	TTCATGGCCT	AGATGGTCTC	TGCTGCTCTT	GCCTCTAGTT	CATGGAGATG	60
TGTCTCTGTT	CAGGCCAAGA	TACAGCCAGC	CAGGCCTGTC	GTCTGGGACC	CAGGAGGCCT	120
CTGATGACCA	AGGGCTTTCA	CATCCTAAGT	CATTTGGAAG	GAGGCCTTGA	GAACAAAGTC	180
ACCTTTGTCA	CTCCCAGTGA	ACTGAATGAG	GAACATGCTG	TCTCCTGTCT	TGGCCTCCCC	240
TTTCATGAGA	TACTGGGGAG	AAGAGAACAT	TCCTCCTGGC	TTAGTTGTAG	CAGACCCAGA	300
CCTGTGCCCC	GCTTTGGTCC	CCCTTCCCAA	CTTCTGAAGC	ACGTGCTGCA	GAGCCACCTT	360
GGTCTGAGCA	CCTGAGGACC	AGCCCCCTCT	CCCTCAGTGC	GGGTCATCTC	TTGGGGGATT	420
TTCTTAAAGT	GAAGAAAGGG	GGTGGGGAAC	CATATTGCCC	CTCCCTCCCC	CATCAAACCT	480
CCTTCATTTA	ACTTGCTATA	AAATGAGTCA	TATAAAGAAA	CTCTATATGG	GTGAGGTATA	540
TCCCACTTCT	GTGAAAACAT	TACAAATCAA	ACCGCTTCTC	TCAGTTTATT	TAAGATGCTT	600
TTGTTGCAAG	CGGTACTCGA	G				621

## (2) INFORMATION FOR SEQ ID NO:658:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 567 base pairs
- (B) TYPE: nucleic acid

(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:658:

GAAGTCTTGG	AGATTTCCTAG	TTTATTTCATT	AACAGCAGAA	GGATGGAAGA	AAATTCCTCT	60
GGCAATACCA	TGTCAGCCTC	TTCGATGTTT	AATACAGAAG	AAAGAAAATG	TTTGCAGACT	120
CACAGAGTCA	CGGTGCATGG	GGTCCCAGGG	CCAGAGCCCT	TTACCGTTTT	CACTATTAAT	180
GGAGGCACCA	AGGCAAAGCA	GCTTCTGCAG	CAAATTCTGA	CAAATGAACA	AGACATCAAA	240
CCTGTTACCA	CAGACTATTT	TTTGATGGAA	GAAAAATATT	TTATATCTAA	AGAAAAGAAT	300
GAATGTAGGA	AACAACCATT	CCAGAGAGCC	ATTGGTCCAG	AAGAGGAGAT	CATGCAAATT	360
TTAAGCAGCT	GGTTTCCAGA	AGAGGGATAC	ATGGGCAGGA	TTGTCTTAAA	AACCCAGCAG	420
GAAAACCTAG	AAGAGAAAAA	CATTGTTCAA	GATGACAAAG	AGGTGATCTT	GAGCTCAGAG	480
GAGGAGAGTT	TCTTTGTCCA	AGTGCATGAT	GTTTCTCCAG	AGCAACCTCG	AACAGTCATC	540
AAAGCACCCC	GCGCCAGCAC	ACTCGAG				567

(2) INFORMATION FOR SEQ ID NO:659:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 388 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:659:

GAATTCGGCC	TTTATGGCCT	AGGCCCTTTG	GCCCTGGGGT	GGGGGTGCTT	ACTACATCCC	60
TGGAAGGTGC	AGGGAGGCTG	ATGGCCTTGA	TCTCTAACAC	AAACAGGAAC	CAGCTTCCTC	120
CCTCCCCCAC	CCTGGGTTC	CAGGGCCTCC	GGGTGTGAGA	TCCTCCCCCA	CTGCAGTGCC	180
CCACCCGCTC	CCCACAGAAG	CCCGGAGAGT	GGCTCTGTCA	CCAGAGGTGT	CATTTCCCA	240
CTGTCTGTGG	GAGGTGAGTG	AGCAGGGAAT	GTGTGTGCTG	GGTGTGGGAA	CTCAGCCCAA	300
TCTAAGAGAA	GATACTCTTG	GCTTCCTCCC	CCTCAGAGGA	GCAGCCGCGT	CCCTGGTCCT	360
TGTGCACTGA	CAGTCCCGGA	GTCTCGAG				388

(2) INFORMATION FOR SEQ ID NO:660:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 491 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:660:

GAATTCGGCC	TTTATGGCCT	AGCCAGGAGT	TGAGGTGGAA	GTCACCATTG	CAGATGCTTA	60
AGTCAACTAT	TTTAATAAAT	TGATGACCAG	TTGTAACTT	CTGTTGGTTT	TTATTCAGAA	120
TACTGGCAGA	TTTATAGGAAT	ATAAAGGTGT	ACTATGAGAC	TTCCACTTTT	CAGGTGGAAT	180
ATATGGGTAT	CTTAGAGTGG	TCTATCCTGT	TTTCGTGTGC	GTTTGAGTCA	TTTGAAAAC	240
GGATTCCGTT	AACTACATAA	TATGTGAGAC	CTGACTGGTT	TTATTGGACA	CTGGCAGTTT	300
ATAACTTTGG	CATACTCTAG	ATAAATTCTG	ATTGGTATGG	GGTGTAAAGG	TTTCTGGGGC	360
GTTTGTAAATG	CACACCCATG	GTTGAGAACC	TAGTGCCTA	GTAGGCACGT	GTTAAAAAGC	420
TAGTAACTAA	TATTTTAAAT	TTAACCAAGT	TTAACGTCCT	TAAAAAAGGA	TTAAGTGGCA	480
AGGACCTCGA	G					491

## (2) INFORMATION FOR SEQ ID NO:661:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 310 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:661:

```

GAATTCGGCC TTCATGGCCT ACCTCAATAT GCTATCAGAT TCTGAAAATT CCCAGCATCT      60
GGAAC TTCAT GAGCCACCAA AAGCTGTGGA TAAGGCGAAA TCCCAGGGG TTGATCCTAA      120
GCAGTTGGCA GCAGAACTCC AGAAGGTTTC ACTACAGCAG TCACCGCTGG TTCTGTCATC      180
AGTTGTTGAA AAAGGATCTC ATGTTTCATTC AGGTCCTACA TCAGCAGGAT CCAGTTCCTG      240
TCCCAGCCCT GGGCAACCAG GGTCCCCCTC AGTGAGCAAA AAGAAGCAGC GCAGCAGCAA      300
GCCACTCGAG                                     310

```

## (2) INFORMATION FOR SEQ ID NO:662:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 404 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:662:

```

GAATTCCTAT GGCCTACTTC CGGCGCAAGT GGCTTCTGAT AATCATGGCG CCCCTCGGAA      60
CAACTGTATT GCTGTGGAGC CTCTTGAGGA GTTCTCCGGG CGTGGAACGG GTCTGTTTCC      120
GGGCTCGAAT CCAGCCCTGG CACGGTGGCC TGCTCCAACC GCTACCTTGC TCTTTCGAGA      180
TGGGGCTGCC ACGCCGCCGG TTCAGCTCCG AGGCCGCAGA ATCTGGTAGC CCAGAGACCA      240
AGAAACCTAC ATTTATGGAT GAGGAAGTTC AAAGCATACT CACGAAAATG ACAGGCTTGA      300
ACTTGACAGAA GACTTTTAAG CCAGCTATAC AAGAACTGAA GCCACCAACC TATAAGCTAA      360
TGACTCAGGC ACAGTTGGAA GAGGCTACAA TACAGGCTCT CGAG                                     404

```

## (2) INFORMATION FOR SEQ ID NO:663:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 224 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:663:

```

GAATTCGGCC TTCATGCCTA ATTTGTGTGA TGGCCAAAGA GTTCTTATCA GAAGTGGCAA      60
AAACTACATA CAGGTTGGCT TCCAATAACA TGAGCCAGGT ATTTTTCAGT AATATTTTGA      120
AGTGTCTTTT CTTTCTAGAC ATGCACATGA TGGTGTCCAA GCCAGAACAG TGGGTAAAGC      180
CAATGGCTGT AGCAGGAGCC AATCAGTACA CCTTCATCT CGAG                                     224

```

## (2) INFORMATION FOR SEQ ID NO:664:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 476 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:664:

```
GAATTCGGCC TTCATGGCCT AGGTCTACCA AAGTGAGGAC ATTACTGCAG ATATTCTTCT    60
CCTTTTCTCC TACATTATCA TTTCTCTTTT ATAACATCAT TTCTGCAGAT ATGTAAAAAT    120
ACATCCCATC TTCAAAAAGA AAAACAAAAA TCTGACTGTA CTTCATATCC CCTTCTAGAC    180
ATTGCCACAT TTCTCTACTT CTGTTTACAA CAAAACCTCT GGAAAGATTG GTCTATACTG    240
GCTTTCTCTA CTCTTTTAC TTCCATTCTT TTCCTAACCA CTCTAAACAT GCTTGGGTCC    300
CCACCACTGT AACAAATATA ATTTGTGTCC AATAACCAGT GATCTCTGTA TCACCGGTTC    360
CAAGGGTGAG ATCTCAGACT TCACCTTTCT GGATTGATTG ACACATTGGA CTCAGTTGGT    420
TACTCTCAC TTCTTGAAC TGTCTTCACT GGGCTTTTGT GACTCCATAT CTCGAG        476
```

(2) INFORMATION FOR SEQ ID NO:665:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 238 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:665:

```
GAATTCGGCC TTCATGGCCT ACTCTCTACT CCTTTGTGCT CAATTTCAT TGTGGAATTC    60
TGCATATATG ATCTTGTGGC ACATTCTAC ATTTCTCAG CCCAGAAGGC CTTCCCTGTT    120
CACTATCTCC TTCTTTTAC TAACCTTAC TATATTTCCA GGCACAGTTC AGGCATCAGA    180
TAGCCCTATT TGTTCCAACT TTCACCGTAG GTCAGATTAT AAGCCTTGCA ATCTCGAG    238
```

(2) INFORMATION FOR SEQ ID NO:666:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 361 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:666:

```
GAATTCGGCC TTCATGGCCT AGACCATTTT CATTGTTTAT AGTTTATTTT TTATAAATAG    60
TGCTTTCTGG AATATCCTTA AATACCTCTA TCTTTTAAAC ATCCTTGTGT ATACATCTTT    120
TCTCACACTT GGCTTCTCTT TGAATAGAA TCTCCTGGAA ATTAGATAGC TGAGGTAAAA    180
GTCCCTGAAC CTTTACAAA TTGCTACACA ATAAATACCA AACTGATTTT CAGGAATGTA    240
GTCCCATCAA CAGTGTGCTT GTTTATCCAT ATCGTTGCTG ATCTGAGTTT TGTCAGTCTA    300
TTGATTCTTA CCAATCTGCC AGTATCATAG ATTTTAAAAT ATTTTGTG TGCTATCTCGA    360
G                                                                    361
```

(2) INFORMATION FOR SEQ ID NO:667:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 343 base pairs

(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:667:

GAATTCGGCC	TTCATGGCCT	ACTCATACAC	AATGAATACA	AAAAGTGGAA	CTCTGCAATT	60
TAATACTGTT	TCCAACTGG	ACACTGGAGA	ATATTCCTGT	GAAGCCCGCA	ATTCTGTTGG	120
ATATCGCAGG	TGTCCTGGGA	AACGAATGCA	AGTAGATGAT	CTCAACATAA	GTGGCATCAT	180
AGCAGCCGTA	GTACTTGTGG	CCTTAGTGAT	TTCCGTTTGT	GGCCTTGGTG	TATGCTATGC	240
TCAGAGGAAA	GGCTACTTTT	CAAAAGAAAC	CTCCTTCCAG	AAGAGTAATT	CTTCATCTAA	300
AGCCACGACA	ATGAGTGAAA	ATGATTTCAA	GCACACCCTC	GAG		343

(2) INFORMATION FOR SEQ ID NO:668:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 266 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:668:

GAATTCGGCC	TTATCCTACA	ACTTTGAATA	GACATAAGAG	TGCCTGTCTG	CATAAACCTT	60
CATCAACATT	GGTATTATCT	TTCTTTTCA	TCTTTGCTAA	TTGGATAAGT	TTTAAAAAGT	120
GTAACACATT	TTAGTTTGCA	TAGCTTTGAT	TATAAGTGAG	GTTCCGACATT	TTTTTTCATT	180
TCTTTACACT	TTAAAAAATC	TAACCGTGGC	AACGTTTGCA	GGTGTGTGTT	CTTCTTATGT	240
TGCTGAGTGT	TATTACTCC	TGGACG				266

(2) INFORMATION FOR SEQ ID NO:669:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 452 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:669:

GAATTCGGCT	TCATGGCCTA	CAAAAAAGAA	ATTAAGAAGC	TCCTAAAGAC	GCAAAGAAAT	60
CATCTACTCC	TCTGTCTGAA	GCAAAAAAAC	CAGTGCTTTT	AAAACCAAAA	GTACCCAAGA	120
AGGAAGAGTC	TGTCAAGAAA	GATTCTGTTG	CTGCCGGA	AGCCAAAGGAG	AAGGGGAAAA	180
TAAAAGTCAT	TAAGAAGGAA	GGCAAGGCCG	CAGAGGCTGT	CGCTGCAGCT	GTCGGCACTG	240
GAGCCACCAC	AGCAGCTGTC	ATGGCGGCAG	CTGGAATAGC	AGCCATTGGC	CCTGCCAAAG	300
AACTCGAAGC	TGAGAGGTCC	CTTATGTCAT	CTCCTGAGGA	TCTAACCAAG	GACTTTGAAG	360
AGTTAAAGGC	TGAAGAGGTC	GATGTAACAA	AGGACATCAA	GCCTCAGCTG	GAGCTAATCG	420
AAGACGAAGA	GAACTGAAG	GAAAACTCG	AG			452

(2) INFORMATION FOR SEQ ID NO:670:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 284 base pairs  
(B) TYPE: nucleic acid

(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:670:

GAATAATTGA CTGAAAGTGT AGTGTGCGAGT GGTAGAATAA GTGCTGATCC TGGGGTCTTA	60
TACCAATGTT GCTAACTGTG AGCAGCCTTT GTCAAATCAC TTGGCTTCAT TTTTCAGTGGC	120
CTAAGAGTAA TAGGTTTAAT TATTTCCATA ATTCCTTTAA GTTTTTACAT TTTCTGAGTT	180
CATCTTTTGT GTTTTTCCTG GCATTTTACT ATTCCTCTTT CCTGCTTTTG GCTATTTTCT	240
CAACAGGTCC ACGACTGGAA TTTGAAAGCA AGAAACATCT CGAG	284

(2) INFORMATION FOR SEQ ID NO:671:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 235 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:671:

GAATTCTGGA AGCAGCCTAT CATCGCTCCG TCTGCCCTCC ATACACAGCG TTTGTGTGTG	60
TTATGCCAAA CTGCTTGGTG TTTTCCAACC GTGGACCATG ATATCTCACT TCCTTAACCT	120
TACCTTCATA TGCTTTTCCT TTGTGTCTTC TTCTGAAATG CTTCTTCCTT TTGTCCAGGC	180
TGACTCCTGT TTGTCTGAGA CATGTGTCTC AGGAAGCCTT TCCGTTCCCC TCGAG	235

(2) INFORMATION FOR SEQ ID NO:672:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 370 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:672:

GAATTCGGCC TTCATGGCCT AGCATTGATG GCCCATGTAG AAGACCTGAT CATTAAGACT	60
ATAATCTCTG CTGAACTAGC TATTGCTACT GCCTGTAAAA CCTTTGTTCC TCATCGCAGC	120
AGTTGTTTTG AACTCTATGG CTTTGACGTG CTCATAGATT CTA CTCTGAA GCCATGGTTG	180
TTGGAAGTGA ATCTCTCTCC TTCTTTGGCC TGTGATGCGC CTCTGGACCT AAAGATTAAA	240
GCCAGTATGA TTTCAGATAT GTTCACTGTT GTAGGATTTG TGTGCCAAGA TCCTGCCCCAG	300
CGGGCATCAA CTCGGCCAAT TTATCCCACC TTTGAGTCTT CCAGGCGAAA CCCTTTCCAG	360
AAACCTCGAG	370

(2) INFORMATION FOR SEQ ID NO:673:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 295 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA



## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:673:

GAATTCGGCC	TTCATGGCCT	ACACAGACAT	CATCATGCAG	AAGATGACCA	TTTCCAACAT	60
GGAGGCAGAT	ATGAATAGAC	TCCTCAAGCA	ACGGGAGGAA	CTCACAAAAA	GACGAGAGAA	120
ACTTTCAAAA	AGAAGGGAGA	AGATAGTCAA	GGAGAATGGA	GAGGGAGATA	AAAATGTGGC	180
TAATATCAAT	GAAGAGATGG	AGTCACTGAC	TGCTAATATC	GATTACATCA	ATGACAGTAT	240
TTCTGATTGT	CAGGCCAACA	TAATGCAGAT	GGAAGAAGCA	AAGGAAGTAC	TCGAG	295

## (2) INFORMATION FOR SEQ ID NO:674:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 156 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:674:

GAATTCGGCT	TCATGGCCTA	CCTGCCTCGA	GTGATGGGTA	TCGGGATGGG	TATCGGGATG	60
GCCCACGCCG	GGATATGGAT	CGATATGGTG	GCCGGGATCG	CTATGATGAC	CGAGGCAGCA	120
GAGACTATGA	TAGAGGCTAT	GACTCCCAGA	CTCGAG			156

## (2) INFORMATION FOR SEQ ID NO:675:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 265 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:675:

GAATTCGGCC	TTCATGGCCT	AATAATTTGT	AAGTTAAAAT	AAGTAATACA	AATTAAATGC	60
AAATCAAATG	CCTGAAGAAG	AAGCACGAAT	ACCTATTTTG	AAATCTGCTG	TAGCCGAGAC	120
AGCTTCTAAA	TCTCCCACTT	GGGTTCTGTT	TCTGGAAGGT	GTGGGTCTCTG	TGGTAGCTGG	180
AGTGTTGGTG	GCCATCTTGG	TGCTGGCGGT	CCTCATGCTG	ATGTACTACT	GCTGCAGACA	240
GAACAACAAA	CTTGGCCAAC	TCGAG				265

## (2) INFORMATION FOR SEQ ID NO:676:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 123 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:676:

GAATTCGGGA	TCAAAACAGA	GGAAAATGGT	GGGAATTCTT	GTATAGATAC	AGTCTAACAT	60
AGAAACCCAT	GCCCATCAGC	AGTAATTTC	AGTCCCCCAG	TCCTCAAGC	CCTGGTACTC	120
GAG						123

## (2) INFORMATION FOR SEQ ID NO:677:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 243 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:677:

```
GAATTCAGAG ATAAAGCTAA AGTTCATTG GAGCACCAGC CCAAATCCTG GACTTCTTTC      60
TGCTCCTCCT CAGAGGTTCT CTGGTTATAA GTTTATGTG TATCTTGCCA GAATTTTTC      120
TATGTTATTA ATACAAATAT ATGTAGCCAC AGAAATTATA GCGTGTCTT CAGCCTTTGG      180
TTTTATTTGC ATTGATAGTA TTATGTCCAT ATCACTCTAC AACTTCTTAG GCCATGAAGG      240
CCG                                     243
```

## (2) INFORMATION FOR SEQ ID NO:678:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 121 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:678:

```
GCGATTGAAT TCTAGACCTG CCTCGAGACC ACCTATGGAA GCCAAGTGTT CCCGGGCCAT      60
GAGACCTGCC CAATCAAGCA GAAACACATT TGGAGAGACA AACAATCAGC ACACGCTCGA      120
G                                     121
```

## (2) INFORMATION FOR SEQ ID NO:679:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 283 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:679:

```
GAATTCTAGA CCTGCCTCGA GTACCTGATC TTTTACTGTC TCTATAGGTT CATCTTTTTC      60
TTCCCTTTGT TAATTCTACT TTTTAGTTTT TTGCTAGAT TTTTCTTGCA ATTGGATAGG      120
CCCATTAAAC CTATTTTGCC TCCACTCTAA ATTCAGTACT CCAAGAATTG GTTTCACCTCT      180
TCCAAATTTT GTATATAAGC CAGAGTTCTG CATAAAGGAA AATACTTAAA TTCTTTCTAA      240
TCTAATGTGG TTTCTGTCAT CTTTCAGGAA ACTTTTCCTC GAG                          283
```

## (2) INFORMATION FOR SEQ ID NO:680:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 373 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:680:

```

GAATTCGGCC TTCATGGCCT AGGGTTTGTG GCTAAAAATT ATGCTTAAGA ACACATCTAA      60
CAAACCTAAA GCTGCAAAGA CATAATGTTA ATGTAGGTGA AAATTTCACT TGTGTTTATT      120
CTGATAGACA AAATTGTATT TTAGATGAGA AGCAACAATT TTCATGTTGT ACTGAGATTG      180
TTAGTAATGA AATACTTCCA AATATTAGTG ATGGTAGAAA TCTAGTGTAG GGCTCTTTGC      240
TGAGAAGGGA AAAAAGTCAC ATAAGAAATC TACTTTTCAG TAAACTGCAA ATATGTGTGC      300
TTCAACCTAT AACATATTCT GTCACCTTGA GCTTGTCTA TTAGACAGAGA ATGAAACTT      360
GATAAGACTC GAG                                     373

```

(2) INFORMATION FOR SEQ ID NO:681:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 253 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:681:

```

GAATTCGGCC TTCATGGCCT AGAGCGACTT CGACACCATG CCAGACATTG AGAGTGATAA      60
AAACATCATC CGGACCAAGA TGTTCCCTTA CCTGTCAGAT TTGTCCAGGA AGGACCGGAG      120
AATTGTCAGC AAAAAATATA AAATTTATTT TTGGAACATC ATCACCATTG CTGTGTTTTA      180
CGCGCTGCCC GTGATCCAGC TGGTCATTAC CTATCAGACA GTAAGTGCTA AACCTAGCCC      240
CAAACCCCTC GAG                                     253

```

(2) INFORMATION FOR SEQ ID NO:682:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 436 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:682:

```

GAATTCGGCC TTCATGGCCT AATCGAGGAG AATGGAGACC AAACCTGTGA TAACCTGTCT      60
CAAAACCCCTC CTCATCATCT ACTCCTTCGT CTTCTGGATC ACTGGGGTGA TCCTGCTGGC      120
TGTTGGAGTC TGGGGCAAAC TTA CTCTGGG CACCTATATC TCCCTTATTG CCGAGAACTC      180
CACAAATGCT CCCTATGTGC TCATCGGAAC TGGCACCACCT ATTGTTGTCT TTGGCCTGTT      240
TGGATGCTTT GCTACATGTC GTGGTAGCCC ATGGATGCTG AAACCTGTATG CCATGTTTCT      300
GTCCCTGGTG TTCCTGGCTG AGCTCGTAGC TGGCATTCA GGGTTTGTGT TTCGTCATGA      360
GATCAAGGAC ACCTTCCTGA GGACTTACAC GGACGCTATG CAGACTTACA ATGGCAATGA      420
TGAGAGAATG CTCGAG                                     436

```

(2) INFORMATION FOR SEQ ID NO:683:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 286 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:683:

GAATTCGGCC TTCATGGCCT AGTCCCCACT TTATCTCTTT AAACGGTTTC TTTTTCCTTT	60
TTTTTTTSTA GACCTCTCAG GGATGAAACA TTTTATTTT TAAACTAGTT TTTTSTTTAA	120
ATAACATTAA CACATGCTGA ATGCTTAAAT CTTTTTAGAA TTCAGAAAGG TAAATGAAA	180
GTCACCATTG TCATTCTCAT CATCTTACTC CCAGAGATGA TTGTTATTAA TATTCCAGA	240
AATTTTGCTT GTATATGCAA ACAGCAATAT ATTGTAGCTG CTCGAG	286

(2) INFORMATION FOR SEQ ID NO:684:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 276 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:684:

GAATTCGGCC TTCATGGCCT ACCCTTACCA GATACTGAAT CTGCCAGTGC CTTATTTTGG	60
ACTTCTCAGC CTCCTGGGCT GGGTGAGGTG GTTCACTACC AGCCTTGGCA CCATAGTGAG	120
ACTCCCATCT CTACAAAAA AAAAAAAAAA AAACCTTCTG TTGTTTGTA GCTACCCAGT	180
TTATGGTATT TTGTTACAGC AACCCAAACA GTCTGAGACG TTTAGCTTAA CTCCTGTATG	240
CACTAGATAC AGTCTGCACT TTGACATCAA TCTCGA	276

(2) INFORMATION FOR SEQ ID NO:685:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 155 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:685:

GAATTCGGCC TTCATGGCCT ACTAAGAATA GGAAAAAAAA TAACACTATG ATACCACAAC	60
CTTATTACAT CAAACTGCTT TGGGCTTTAT CCTCTTTAA GTGTGCTCAG GTGTTGAGCC	120
ACGAGGTTTC TGACAGCCCT CATAAGACCT TCGAG	155

(2) INFORMATION FOR SEQ ID NO:686:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 301 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:686:

GAATTCGGCC TTCATGGCCT ACTTTGAAGA GTACGATTTT AAAACCAGCA ATTGGTGTGA	60
ATGCAAAAAC ATTTGTTGGC ACCATTTATT TAAAAAAA AAAAGCTGTA TGCAGCAGAA	120

AGCCTTATAC AAGTTGTTTT TCTTTTTTTC CTTTTTCTTT TTTTGGTAC CTTCAATTTCT	180
GTTACTTTTA TATAAAATTC TCTGCAAAGG AAGGCCTCTC TTTGGACTAC AATTTGGAGG	240
CAGCCACTTG TTGTGCCTGC TTCTGTTAAA GAATGTGGAT ATCAAGCCCC CCCGACTCGA	300
G	301

## (2) INFORMATION FOR SEQ ID NO:687:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 254 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:687:

GAATTCGGCC TTCATGGCCT AATTTTACA GAAATTATTT CCACAATCAG AAGTACTGTA	60
CTGATTGCAT TTCTTTGTCT CAAAAAGTTT TCCTTATGTT TCTCAAAGCA GTATTTACAC	120
TAATTATTCA ATTCTTATCT TTCTTTCAGT TTTCTCCAAT AGACTGTGAG ATCTTTGAGG	180
GCCAGGTTGA CATGTCTCTG ATACCTACAC CCTATGCAGC TCCTAGTGCA GGACCTTGCA	240
GTGACAAGCT CGAG	254

## (2) INFORMATION FOR SEQ ID NO:688:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 261 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:688:

GAATTCGGCC TTCATGGCCT AATATTATT TAGATGCTAT TATTACTGTT TGGACTTTTA	60
TTTTGGCAGG CTTTGTCCA GACTGTAGGG TTTTCCAATG TGAATAATGA CCACTCCTGC	120
CTCTCCCGTG GTGTATTTTG GGCACCTCC CACCCGGCTG CATACCCGGC CAGGGCTCCC	180
ACAGAGACAA GGAGGGCACA GGTGTCTGCC CCCTCTTTGA AATCGATATA CACACATCCA	240
CGCACATGCG GCCCACTCGA G	261

## (2) INFORMATION FOR SEQ ID NO:689:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 214 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:689:

GAATTCTAGA CTTGCCTCGA GCTTCTGGCT GTTGTCTTTG CTGGGCATCC TTTTACAAG	60
TGGAAGAAGT AGGATGGCTT TCCAAAGTCT TCTAGAAATG AAGTTCTTTC TCTGTGCAGC	120
TTTCCCCTT GGAGCAGGAG TGAAGATGTT TCATTATCTT GGGCCTGGGA AACCACTTCC	180
CCAGGCTTCT CCTCCCCC ACCCCGACT CGAG	214

## (2) INFORMATION FOR SEQ ID NO:690:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 307 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:690:

```

GAATTCGGCC TTCATGCCTA CAAACTTAAA AGTAAATCTT TGGAAATCAG ATAGTAGTCT      60
TGAAACTATG GAAAACACAG GAGTGATGGA TAAGGTTTCAG GCAGAGTCTG ATGGGGACAT      120
GTCTTCAGAT AATGACTCAT ACCACTCTGA TGAATTCCTT ACAAATTCTA AGTCTGATGA      180
AGACAGGCAG CTAGCTAACT CATTAGAGAG TGTAGGGCCA ATAGATTACG TTCTTCCTAG      240
TTGTGGTATT ATTGCCTCAG CGCCTCGATT GGCAGTCGG TCCAGTCTC TTAGCAGCAC      300
ACTCGAG                                         307

```

## (2) INFORMATION FOR SEQ ID NO:691:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 493 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:691:

```

GAATTCGGCC TTCATGCCTT ACTCCATATT TATTAGATG CTATTATTAC TGTTTGGACT      60
TTTATTTTGG CAGGCTTTTT TCCAGACTCT AGGGTTTTCC AATGTGACTA ATGACCACAC      120
CTGCCTCTCC CGTCGTCTCT TCTGGGCACC CTCCACCCCG GCTGCATACC CGGCCAGGGC      180
TCCCACAGAG ACAAGGAGGG CACAGGTGTC TGCCCCCTCT TTAATTCGA TCTACACACA      240
TCCACGCACA TCGACCCCG AGGAAACGAA ACCCACTCTA GAAAACGCGA CCTTGGCCGC      300
ACCTAAAGCA GCCAGCCGTG AGTGCAGACC CCTTGGCCAG CGTGGCGCAG TGGCCCTGAG      360
CAGTAGTGGC GTGTGTGTAG ATCAAGTCGG ATCTAGTCCA GCTCGGTTCA TTAGCGATCC      420
ATGTAATCTG ACGTCATCTT GTCTCGAAGT CTCTTTTTTT GGCCAGGCC TTGAAGAATA      480
CACTGGACTC GAG                                         493

```

## (2) INFORMATION FOR SEQ ID NO:692:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 225 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:692:

```

GAATTCTAGA CCTGCCCCTG CCTCCTGCAT CCAGCCCCCA ACATGGTGCC AAAGCTTCCA      60
GAAGCCAAAA AGCTTCTGAT TTTTAAGGTA GTGGGCATCT CTCTCCTAAT GACGAAGCTG      120
CTCAGCAACT CCACCTGCCC GCCGAGGAA GGAGCAGTCC CCTGCTATCC CTGCAGCCAC      180
TCCCAGCACA CCCGCACACA GCCAGACCA CCGCCCACTC TCGAG                                         225

```

## (2) INFORMATION FOR SEQ ID NO:693:

## (i) SEQUENCE CHARACTERISTICS:



- (A) LENGTH: 251 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:693:

```
GAATTCGGCC TTCATGGCCT ACTGGCTCAT ACAATACATC AATAAGTATG CAACTTTTCA      60
TTTGTTATTT CGTTGCTGGA AGTGGGAAAT ACCCATCTT CCCAGGAGTG AAATGGTTCT      120
ACTTTCTCTC CGTGGTGCCC TGTATCATTA CTCAGCTCTG CTGCTGCTCT CCGCAGCCCC      180
TAAAAGTAGC ATGGATCGGG GAAGAAGGAA GGACGGCAGG AAGGCAGGCA GAGATCCTCA      240
GGCAGGTCGA G                                         251
```

(2) INFORMATION FOR SEQ ID NO:694:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 294 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:694:

```
GAATTCGGCC TTCATGGCCT AGTGTGTGTG TCGTGTGTG TGTGTTTACA TATAAAGTTT      60
TTTGGTAACA AATAAATTTT GTTAGAGCTA GTCAGATTTT TGTGTGCTTA ATCTGCTAGT      120
TTTGGTAGGT TATATTTTTC AAGGAATTG TCCATTTTAC CTATGTTGTT GAATTTTGGG      180
TGTAACGTTT TTCATTACTC TTTTCTTTT AATATCTGTG GGATCTGTAA TGATGCCCCC      240
TCTTTCATTC CTGATATGAG TAATTCTTAT TCTCTTTTGT TCTATCAGCT CGAG          294
```

(2) INFORMATION FOR SEQ ID NO:695:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 246 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:695:

```
GAATTGGCCT TCATGGCCTA ATTGGGACCA AATAGAGGCT CACAGATATT TGGATTATTT      60
TATGTGCTTA TTATTAAATA AGGAAAGCAT TTTGTGATAT GTGGAAGACG CTATGTGAAG      120
TTTTACCTAT CTTCTCAAAG ACCTTTTCTT TTGTATTTTC TTTTGGTGTT TCTTAAAGCC      180
AAACAAAGAA ATGTTCTTAA GGAGACAGGG TGGGTTTTTC TGTGGGCCTA GGCCATGAAG      240
GTCGAG                                         246
```

(2) INFORMATION FOR SEQ ID NO:696:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 349 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear



(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:696:

GAATTCGGCC	TTCATGGCCT	ACCCTAATAT	AAAAAGCATT	GTCACCATGT	TGATGCTGAT	60
GCTATTGATG	ATGTTTGCTG	TCCACTGTAC	CTGGGTCACA	AGCAATGCCT	ACTCTAGTCC	120
AAGTGATGTC	CTGGCCTCAT	ACAATCATGA	TGGCACCAGG	AATATCTTAG	ATGATTTTAG	180
AGAAGCTTAC	TTTTGGCTAA	GGCAAATAC	AGATGAACAT	GCACGAGTAA	TGTCTTGGTG	240
GGATTATGGC	TATCAGATAG	CTGGAATGGC	TAATAGAACT	ACGTTGGTGG	ATAATAACAC	300
CTGGAATAAC	AGCCACATAG	CACTGGTGGG	AAAAGCTATG	TCTCTCGAG		349

(2) INFORMATION FOR SEQ ID NO:697:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 220 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:697:

GAATTAAATA	AGTTACTGAC	TTTGTGACTT	ATTTAATTCA	TATTAATATA	TTAGGCTTCC	60
CAACTGACGG	TGTTGCAGTT	GAGCTAGCTT	CCAGTTTGG	AGAAACACAT	AGTTGATTAG	120
TTCTGTCAGT	AATTTTCAGG	GATATTAATA	TAACTTTGAT	ATTAGTGAGA	AATTTTCTTT	180
CAGTAGTAAA	ATGTTTTCTA	ACTTAGGAGC	TGTTCTCGAG			220

(2) INFORMATION FOR SEQ ID NO:698:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 353 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:698:

GAATTCGGCC	AAAGAGGCCT	AGCAGAGCTT	TCATATCCAC	GATGCGTTTT	CTGGCCGCCA	60
CGATCCTGCT	GCTGGCGCTG	GTGCTGCCA	GCCAGGCGGA	GCCCCTGCAC	TTCAAGGACT	120
GCGGCTCTAA	GGTGGGAGTT	ATAAAGGAGG	TGAATGTGAG	CCCATGTCCC	ACCGATCCCT	180
GTCAGCTGCA	CAAAGGCCAG	TCCTACAGTG	TCAACATCAC	CTTTACCAGC	GGCACTCAGT	240
CCCAGAACAG	CACGGCCTTG	GTCCACGGCA	TCCTGGAAGG	GATCCGGGTC	CCCTTCCCTA	300
TTCTTGAGCC	TGACGGTTGT	AAGAGTGGA	TCAACTGCCC	CAGTACAGTC	GAG	353

(2) INFORMATION FOR SEQ ID NO:699:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 298 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:699:

GCGATTGAAT	TCTAGACCTG	CCTCGCTTCC	CCACCCTTAC	TAACATTAAC	GAAAAATAACC	60
CCACCCTACT	AAACCCCAT	AAACGCCTGG	CAGCCGGAAG	CCTATTCGCA	GGATTTCTCA	120
TTACTAACAA	CATTTCCCC	GCATCCCCCT	TCCAAACAAC	AATCCCCCTC	TACCTAAAAC	180
TCACAGCCCT	CGCTGTCACT	TTCTAGGAC	TTCTAACAGC	CCTAGACCTC	AACTACCTAA	240
CCAACAAACT	TAAATATAAA	TCCCCACTAT	GCACATTTA	TTTCCCCAAC	TCCTCGAG	298

## (2) INFORMATION FOR SEQ ID NO:700:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 370 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:700:

GAATTCGGCC	TTCATGCTTA	GCCTCAGCTC	TTTCTTCTGG	GTGTTTGTA	TTTTCTTTTC	60
TGTCCCAAAC	AGTTTCCCC	ACAAAAAGAA	CTTTATGTCT	TTCTCTGTCT	TCCCTCAGTC	120
CTTCCAGTCA	GCAGCCTGTG	ATTGGGCTTT	TCCCCTCAGA	AACGAACAAT	CCAGAACCCA	180
CTGTTTAAAA	CAACTGTATT	TTGCCTTGGG	AAGTCCCAT	GCCTTCCCTG	AAAACATTAA	240
ACATTCCTCC	GATCCCCAGC	CTGAGTCTCT	CTGTCTCTGG	GCCCCATCCT	GCTCCACAGC	300
AGGGCTGGTG	TGTCCAGCAC	AGAGTGACCC	TCCGATGCCC	TTTCCCACCC	GCCGCCCTGC	360
CTCCCTCGAG						370

## (2) INFORMATION FOR SEQ ID NO:701:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 515 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:701:

GAATTCGGCC	TTCATGGCCT	AGGAAAGATC	TAATTATCAT	GGACCTGCGA	CAGTTTCTTA	60
TGTGCCTGTC	CCTGTGCACA	GCCTTGCCT	TGAGCAAACC	CACAGAAAAG	AAGGACCGTG	120
TNCATCATGA	GCCTCAGCTC	AGTGACAAGG	TTCACAATGA	TGCTCAGAGT	TTTGATTATG	180
ACCATGATGC	CTTCTTGGGT	GCTGAAGAAG	CAAAGACCTT	TGATCAGCTG	ACACCAGAAG	240
AGAGCAAGGA	AAGGCTTGGA	AAGATTGTAA	GTAAATAGA	TGGCGACAAG	GACGGGTTTG	300
TCAGTGTGGA	TGAGCTCAAA	GACTGGATTA	AATTTGCACA	AAAGCGCTGG	ATTTACGAGG	360
ATGTAGAGCG	ACAGTGGAAG	GGGCATGACC	TCAATGAGGA	CGGCCTCGTT	TCCTGGGAGG	420
AGTATAAAAA	TGCCACCTAC	GGCTACGTTT	TAGATGATCC	AGATCCTGAT	GATGGATTTA	480
ACTATAAACA	GATGATGGTT	AGAGACGTTT	TCGAG			515

## (2) INFORMATION FOR SEQ ID NO:702:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 381 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:702:

```

GAATTCGGCC TTCATGGCCT AGGGGACCTG ACGTTCACTG TGGCCCAAAA GATGGCTGAG      60
CCAGAGAAGG CCCAGCCCT CAGCATCCTG CTGTACGTGC AGGCCTTCCA GGTGGGCATG      120
CCACCCCCTG GGTGCTGCAG GGGCCCCCTG CGCCCCAAGA CACTCCTGCT CACCAGCTCC      180
GAGATCTTCC TCCTGGATGA GGAAGTGTGTC CACTACCCAC TGCCCGAGTT TGCCAAAGAG      240
CCGCCGCAGA GAGACAGGTA CCGGCTGGAC GATGGCCGCC GCGTCCGGA CCTGGACCGA      300
GTGCTCATGG GCTACCAGAC CTACCCGCAG GCCCTCACC TCCTCTCGA TGACGTGCAA      360
GGTCATGACC TCAAGCTCGA G

```

## (2) INFORMATION FOR SEQ ID NO:703:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 327 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:703:

```

GAATTCGGCC TTCATGGCCT AGCTCCACTT TCTCTGAAAA TTTATTCATA TTGTTAATTA      60
AATTTGTTTT TATTATAGAA ATAATATATT GCATGATTG TAAAAATGCA GAGGAACAGA      120
ATGGCACAAA ATTATGTAAC CCTTTCTATC TCCCTTGGT GTACCTCCTT AATCATACTT      180
CTCAGAACCA TTGTCAATAA TTTGCTGGGA GTTCTTCTGA TGTTACCAT CGTCACTGAT      240
AGATTTATTT CCCAGGTTCA AGCGGTTCCC CTGCCTCAGC CTCCCGAGTA TCTGGGACTA      300
CAGGCATGCA CCACCACTCA GCTCGAG

```

## (2) INFORMATION FOR SEQ ID NO:704:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 299 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:704:

```

GAATTCGGCC TTCATGGCCT TGCCTTTTTT CTTCACCAC TTTACTACAC ACAATTACTG      60
GATTAATCTC TTTAATGCCG AGATCTTTTT TCCTTAGTGA CACCTTAATC ACTCTTAGCT      120
TAACATATAT GGTCATCCAT TACTGGGTTG CCTCTGCCTT TCCAGGATTG GCTGCCACTG      180
CTCCTCCACA TACCCTGTAT TCTAGCCAAA TGAATCACT GCTGTGTCCC AAGCAGATTC      240
TTTATTTCTC TTGGCTGTTG CTCTCTATTT CTAATGCTAC CTGCCCTTCA AAACGAG      299

```

## (2) INFORMATION FOR SEQ ID NO:705:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 494 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:705:

```

GAATTCGGCC TTCATGGCCT ACTTGATTG TGGCTTATCT CAAGTTACCA TTTTTCAGTC      60
AAGTCTGTTT GTTTGCTTCT TCAGAAATGT TTTTACAAT CTCAAGAAAA AATATGTCCC      120

```

AGAAATTGAG	TTTACTGTTG	CTTGATTTG	GACTCATTG	GGGATTGATG	TTACTGCACT	180
ATACTTTTCA	ACAACCAAGA	CATCAAAGCA	GTGTCAAGTT	ACGTGAGCAA	ATACTAGACT	240
TAAGCAAAAAG	ATATGTTAAA	GCTCTAGCAG	AGGAAAATAA	GAACACAGTG	GATGTCGAGA	300
ACGGTGCTTC	TATGGCAGGA	TATGCGGATC	TGAAAAGAAC	AATTGCTGTC	CTTCTGGATG	360
ACATTTTGCA	ACGATTGGTG	AAGCTGGAGA	ACAAAGTTGA	CTATATTGTT	GTGAATGGCT	420
CAGCAGCCAA	CACCACCAAT	GGTACTAGTG	GGAATTTGGT	GCCAGTAACC	ACAAATAAAA	480
GAAGTAGTCT	CGAG					494

## (2) INFORMATION FOR SEQ ID NO:706:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 491 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:706:

GAATTCGGCC	CTTCATGGCC	TACTCCCGAG	CTCTACTGAC	TCCCAAAGA	GCGCCCAAGA	60
AGAAAATGGC	CATAAGTGGA	GTCCCTGTGC	TAGGATTTT	CATCATAGCT	GTGCTGATGA	120
GCGCTCAGGA	ATCATGGGCT	ATCAAAGAAG	AACATGTGAT	CATCCAGGCC	GAGTTCTATC	180
TGAATCCTGA	CCAATCAGGC	GAGTTTATGT	TTGACTTTGA	TGGTGATGAG	ATTTTCCATG	240
TGGATATGGC	AAAGAAGGAG	ACGGTCTGGC	GGCTTGAAGA	ATTGGACGA	TTTGCCAGCT	300
TTGAGGCTCA	AGGTGCATTG	GCCAACATAG	CTGTGGACAA	AGCCAACCTG	GAAATCATGA	360
CAAAGCGCTC	CAACTATACT	CCGATCACCA	ATGTACCTCC	AGAGGTAAC	GTGCTCACGA	420
ACAGCCCTGT	GGAAGTGAGA	GAGCCCAACG	TCCTCATCTG	TTTCATCGAC	AAGTTCACCC	480
CACCACTCGA	G					491

## (2) INFORMATION FOR SEQ ID NO:707:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 242 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:707:

GAATTCGGCC	TTCATGGCCT	ACCTTATCTT	CTTAACCTTT	CAAATACTTG	CAGATATTTT	60
GCTTGGTGCT	TCCCATCTAT	TGCAATACCC	CTTTAGATAA	AGTCAATTCT	TATCTAAAAT	120
CAAATTCATT	TTATTTGACA	ATGTTTACAA	ACAACCCAG	GACGATAACA	ATTACACTCT	180
CAATACTGGC	ATCACACCTT	CACAATTACA	CTAACCCCAA	CCTAGGCCAT	GAAGGCCTCG	240
AG						242

## (2) INFORMATION FOR SEQ ID NO:708:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 285 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:708:

GAATTCGGCC	TTCATGGCCT	AGACAGAATT	ACTGGGAACC	ATTTTCCAAG	TAGCCCACCA	60
CAAAGGTTGT	ATTTTGTCAA	ATTGAAGGAG	TCATCTGACT	TTCCTTAATC	ATAAGCTACA	120
AATATAATAA	GCTACATTAA	TAGATTTTCT	AATATTTATT	TAACTTTGAA	TTTCTGGAAA	180
AAACCCAACT	TGGAATGAT	TTATCATCTG	AGCTTTGTTT	TTGGCTTTGG	TATGCTAATT	240
TTGGCTTAG	GATTTTATA	TCTATTCAT	GAGTGGCACC	TCGAG		285

## (2) INFORMATION FOR SEQ ID NO:709:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 319 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:709:

GCACGCCATG	GGAGAAAAAG	AAGAAGCCAA	AAAAACAGAA	GACAAGTCTT	TGGCAAAGCC	60
TGAAACTGAT	AAAGAACAGG	ACAGTGAAAT	GGAGAAGGGT	GGAAGAGAAG	ATATGGATAT	120
AAGTAAATCT	GCAGAGGAGC	CACAGGAAAA	AGTTGACTTG	ACTCTAGATT	GGTTAACTGA	180
AACCTCTGAA	GAGGCAAAAG	GAGGAGCAGC	ACCAGAAGGA	CCGAATGAAG	CTGAGGTCAC	240
TTCTGGGAAG	CCAGAACAGG	AAGTACCAGA	TGCTGAGGAA	GAAAAATCAG	TTTCTGGAAC	300
TGATGTCCAA	GATCTCGAG					319

## (2) INFORMATION FOR SEQ ID NO:710:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 190 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:710:

GAATTCGGCC	TTCATGGCCT	AGACACATAC	AAAGATAAGG	CTTTGATAAA	ATTCAAGAGT	60
TATTTGTATT	TTGAGGAAAA	AGACTTTGTG	GATAAAGCAG	AGAAGAGCCT	GAAGCAGACT	120
CCCCATAGTG	AGATAATATT	TTATAAAAAT	GGTGTCAATC	AAGGTGTGGC	TTACAAAGAC	180
ATTTCTCGAG						190

## (2) INFORMATION FOR SEQ ID NO:711:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 199 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:711:

GGATTGAATT	CTAGACCTGC	CTCGAGTAAG	ACCCCTTTTT	AAAATGACTC	CCACTGTCTA	60
TTCCACAGCC	GGTGTGCGGC	ATGCTGATTC	AATCCCCACA	ACAGCCCAGG	AGGTAGGCGC	120
CGTCCCATCC	TCCTTTACAG	GAGGGGAAAC	TGAGGTTTCA	GTGGTCAGAT	GGTCAGCTGC	180
CTCCAAGACC	ACGCTCGAG					199

## (2) INFORMATION FOR SEQ ID NO:712:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 304 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:712:

GAATTCGGCC	TTCATGGCCT	ACCTGTACCT	GTTTTATACT	TGCTTTTGCT	TCAGCGTTCT	60
GTGGTTGTCA	ACAGATGCCA	GTGAGAGCAG	GTGCCAGCAG	GGGAAGACAC	AATTTGGAGT	120
TGGCCTGAGA	TCTGGGGGAG	AAAATCACCT	CTGGCTTCTT	GAAGGAACCC	CCTCTCTCCA	180
GTCATGTTGG	GCTGCCTGCT	GCCAGGACTC	TGCCTGCCAT	GTCTTTTGGT	GGCTAGAAGG	240
GATGTGCATT	CAGGCAGACT	GCAGCAGGCC	CCAGAGCTGC	CGGGCTTTTA	GAACACTCCT	300
CGAG						304

## (2) INFORMATION FOR SEQ ID NO:713:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 361 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:713:

GAATTCGCCC	TTCATGGCCT	ACCCAATTCA	GTTTCCAGAG	GAGGTGGAAC	CTTCTGCAAC	60
CCAACAGGAG	GCCCCAATTG	AGCCTCCAGT	TTCTCCTATG	GAGCATGAAC	TTTCCATCAG	120
TGAGCAGCAG	CAGCCAGTTC	AGCCTTCTGA	GTCTTCTAGG	GAGGTGGAAT	CTTCTCTGAC	180
CCAGCAGGAG	ACCCAGGTTC	AGCCTCCAGA	ACATCATGAA	GTCACAGTTT	CACCTCCAGG	240
TCACCATCAA	ACTCATCATT	TAGATTCACC	CAGTGTCTCT	GTGAAGCCTC	CAGACGTGCA	300
GCTCACCATA	GCAGCAGAGC	CTAGTGCAGA	GGTGGGAACT	TCTCTAGTCC	GACCCCTCGA	360
G						361

## (2) INFORMATION FOR SEQ ID NO:714:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 316 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:714:

GAATTCGGCC	TTCATGGCCT	ACCGAGATGG	AAATAACCTA	AGAAAAAGAG	GGCATCCAGC	60
TCCATCTCCC	ATTTGGCGTC	ATGCTGCTCT	GGGTCTGGTA	ACTCTTTGCC	TGATGTTGCT	120
GATTGGGCTG	GTGACGTTGG	GGATGATGTT	TTTGAGATA	TCTAATGACA	TTAACTCAGA	180
TTCAGAGAAA	TTGAGTCAAC	TTCAGAAAAC	CATCCAACAG	CAGCAGGATA	ACTTATCCCA	240
GCAACTGGGC	AACTCCAACA	ACTTGTCCAT	GGAGGAGGAA	TTTCTCAAGT	CACAGATCTC	300
CAGTCTTAAC	CTCGAG					316

## (2) INFORMATION FOR SEQ ID NO:715:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 456 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:715:

GAATTCGGCC	TTCATGGCCT	AGGCAATATC	AAGGTTTAA	ATCTCGGAGA	AATGGCTTTC	60
GTTTGCTTGG	CTATCGGATG	CTTATATACC	TTTCTGATAA	GCACAACATT	TGGCTGTACT	120
TCATCTTCAG	ACACCGAGAT	AAAAGTTAAC	CCTCCTCAGG	ATTTTGAGAT	AGTGGATCCC	180
GGATACTTAG	GTTATCTCTA	TTTGCAATGG	CAACCCCCAC	TGTCTCTGGA	TCATTTTAAG	240
GAATGCACAG	TGGAATATGA	ACTAAAATAC	CGAAACATTG	GTAGTGAAAC	ATGGAAGACC	300
ATCATTACTA	AGAATCTACA	TTACAAAGAT	GGGTTTGATC	TTAACAAGGG	CATTGAAGCG	360
AAGATACACA	CGCTTTTACC	ATGGCAATGC	ACAAATGGAT	CAGAAGTTCA	AAGTTCCTGG	420
GCAGAAACTA	CTTATTGGAT	ATCACCACAT	CTCGAG			456

## (2) INFORMATION FOR SEQ ID NO:716:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 290 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:716:

GAATTCGGCC	TTCATGGCCT	AGATCATTCA	GTGGCTCACC	TAATATCACA	GAACAAGTGG	60
TGGAGTCAGA	ATCTTTTATC	TAAAGGAGAT	ATTTTCATCC	TTAGATTAAT	GTCTCTTCA	120
CAGTCTCATG	CTACTTTCCT	TTAAATGAA	ATTGCTGTTT	TTTTTTTAAT	TGATTGGCC	180
AACCTTCATT	GTAACGGAAG	AATCAAAATT	AGAGCCCGGG	TCTCATCCTA	CGGTATCTCG	240
TCCTGAACCT	CTGGTCTCCC	TCAAGAATGA	CTCAGAAGGA	CGGACTCGAG		290

## (2) INFORMATION FOR SEQ ID NO:717:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 306 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:717:

GAATTCGGCC	TTCATGGCCT	AAAAAAAAAA	GCCTTTTAAA	CTTGTAGGAA	TTAAGAAATA	60
AGAATAACCT	ACAAAATGCT	AGCAAAATTT	ATCTCATTTT	TTTTCATTGT	ATTTTCAGGT	120
TTAACTGAAC	TGAATGACAG	TCCAGTCCCC	CTAGAAGTGG	AGCGCTGCAA	GTCTCCTACC	180
TCAGACCATG	TAAATGGACA	CTGCACAAGT	CCAAGTCTCT	AGAGTTGCAG	TTCTGGAAAA	240
CGTCTTTCTA	GTGCCGATGT	TTCAAAAGTA	AATCGCTGGG	GTCTGGAAG	ACCACCACTT	300
CTCGAG						306

## (2) INFORMATION FOR SEQ ID NO:718:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 294 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:718:

GAATTCGGCC	TTCATGGCCT	AATATTTATT	AAATGACTTG	GTAGATAGAG	CAACTGACTG	60
AATATATTAT	TTTTTAGGAA	GAAGAAGAAC	ATTTTGCTT	AAATTAAATT	TCTTATTTTA	120
TTCTCTTTC	CCCTTTTATC	CAGGGTAGGT	CCAGGTAAAG	CCAAAGGCCT	TATCCTTATC	180
TACACTGCTG	GGGGACACAA	CACAAGAATT	TCAAGTTCAA	GTATTATTTC	TCATTTTGAG	240
TAATTTTGT	CTCATTTTGT	TCCAGTTCTC	ACTCTCAGAA	AAAGATTACT	CGAG	294

(2) INFORMATION FOR SEQ ID NO:719:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 263 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:719:

GAAACAATAG	AAACACTGAG	AGAAAATTCA	GAGAGACAGA	TTAAGATACT	GGAACAGGAA	60
AATGAACATC	TGAATCAAAC	AGTGCTTCC	TTAAGGCAGC	GGTCCCAGAT	AAGTGCAGAA	120
GCAAGAGTGA	AAGACATTGA	AAAAGAAAAC	AAAATTCTTC	ATGAATCTAT	CAAAGAAACA	180
AGTAGCAAGC	TAAGCAAGAT	TGAATTGAA	AAAAGACAAA	TTAAAAAAGA	ATTGGAACAT	240
TATAAGAAA	AAGGAAGCTC	GAG				263

(2) INFORMATION FOR SEQ ID NO:720:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 320 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:720:

GAATTCGGCC	TTCATGGCCT	ACCTGCCCTT	CTGCGGTCAC	AGCTGCCTGC	TGGGTGGGAG	60
TCCGGGGGAA	TGGTATGTGT	GGTCACCAGA	GGGCACTGAG	TGGGCTTCAG	TGGCATGTGA	120
ATCCTGGCAG	AGTCTCGGAT	CCCCGATGGG	GAGAGGAGAA	AGCACAAGCC	AAGACAACGA	180
GTGGGGGAAG	GAGGCAGGGG	CTAAGTGACG	GGTGGGGGGT	GGGGGTGGGA	ACTCCAGTGT	240
ACACATTGAC	AGTCTCTATG	TTGGCTTCAC	CAGCGCTTCT	CTGTTTGTCT	CGTCCCTGGA	300
TTTCTAACAG	TGCTTCGAG					320

(2) INFORMATION FOR SEQ ID NO:721:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 292 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear



(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:721:

```

GAATTCGGCC TTCATGGCCT AGTCGGGAGT GTCTTAAGCT TTTCAATTAA CCTAAAGTAC      60
AGAGTCTGCT CTGTAGAAAT ATGTCATTAA GAAAATATTT GAGTCCCAGC TCCTCCTTGT      120
TGTGTAATGT CTGATAATT CACTCATTAA ATTACCCAGA CAGACCATAA AGTCCTCTCA      180
GTTTGCAATCA CCTGAAAGTC AGTCAGCCTG GGCTGTGAGG ATTGTGAGGT AGAACTCACT      240
GTGGAAGGAC GGCATTAGGG AAGACTTTAG GAAAATGGAG CGGAACCTCG AG                292

```

(2) INFORMATION FOR SEQ ID NO:722:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 371 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:722:

```

CTCGAGACCT GTGTGCGCAG GCAACGGGGA AACTGGAAAT GCGTTGACAA ACTGACGCAA      60
AACTGGGCCC AACAGCCACA AGGCACTGGT CGTTTTCCAC TGGGCAAAGT TCAGTCGCAT      120
TTCTTTCTGT TCTCTTTCTT TCTTTCTTTT CTTTTTCTC TTTCTTTCTT TCTTTCTTTC      180
TTTCTTTTTT CTTTCTCTCT CTCTTTCTGT CTGCTCTCTT CTTTCTTTCC TTCTTTCTTC      240
CCTTCCTTCT TTCTTTCTCT CTTTCTCTTT CTTTCTTTTT TTTTCTTTTT AAGAGACGGA      300
GTCTCGCTCT GTTACCCAGG CCGGAGTGCA ATGGCACAAT CTCGGCTCAC TAGGCCATGA      360
AGGCCGAATT C                        371

```

(2) INFORMATION FOR SEQ ID NO:723:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 266 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:723:

```

GAATTCGGCC TTCATGGCCT AGTTCCTTGG TGGTTTGAAA GTTAGAGAGA TCCTGATAAG      60
CATAATGACC AACATAGAAG AGATTAAGTA CCTTTACTCA TAAATGTGAG TTCACAGACT      120
TCAGGTCTAA ATTCGTAACA ATATTGAAGA TGTATATGGC TTAAAGTGCT GGTAGTTTTG      180
ATTAGAATCC ATAGGTTTCT AGTCACTGCT CTTTTCATTA TTTGAGTTTT TATGTATTTT      240
TTAACTAGAA ATAAGAGGGT CTCGAG                266

```

(2) INFORMATION FOR SEQ ID NO:724:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 480 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:724:

```

GAATTCGCCT TCATGGCCTA GAAAGTTTTT CAAAAATTCT TCAATTGTCT CTGSTTGATG      60
CAACTTAATT TTTTGCTGAG AGAGACCTTA AATGTAATTA GTATTGTATA ATTAGCCTGA      120
TTAATCTGAC CTGTACATCA CGAGTCACTT GTCTTTAGCC CAAGAGGAAT GCTTCCTTTC      180
TGATTTGAGG CAGTGGCCCA TCATTGCTTC TAGCAACCTT CCTACTTACT AGATGACCTT      240
GAGTCAAGGT TTCTGTATAT ATGATTTCAG ATTTGTCCCC TAGAACTGAA AAAGGGTAGG      300
AGAGGCAAAG ATAGGAAAAA TATTTTTTAA AAATTTTTAA GTATTTTATT TTTATTGGGA      360
AAATATTAT  TGTAAGTCTT CCATTTGTTA TCCTTCTGCC ACTAGCATTA CGTAAAAAGT      420
AAAAAGAGCT TTACATCAAA AAGCACAATG AACTTTGTA TCCTTAAGTC CGTACTCGAG      480

```

## (2) INFORMATION FOR SEQ ID NO:725:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 438 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:725:

```

GAATTCGGCC TTCATGGCCT AGTCGGAGGT GTAGGAGGGG CCGTGGAGGT CCAGGTGACT      60
GCTTAGAAAA CTGCACAGCA TCTGATGAAA TTAGCGAATA AGAACATCAA CCATGTCTTA      120
CACTCCAGGA GTTGGTGGTG ACCCCGCCCA GTTGGCCCGAG AGGATCTCTT CTAACATCCA      180
GAAGATCACA CAGTGTCTTG TGGAAATACA AAGAACTCTG AATCAACTTG GAACACCTCA      240
AGATTCACCT GAATTGAGGC AACAGTTGCA ACAGAAGCAG CAGTATACTA ACCAGCTTGC      300
CAAAGAAACA GATAAGTACA TTAAAGAGTT TGGATCTCTG CCCACCACCC CCAGTGAACA      360
GCGTCAAAGG AAAATACAGA AGGATCGCTT AGTGGCAGAG TTCACAACAT CACTGACAAA      420
CTTCCGCAAG GACTCGAG

```

## (2) INFORMATION FOR SEQ ID NO:726:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 416 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:726:

```

GAATTCGGCC TTCATGGCCT AGCTACCTAT CTACAAAAC TCCTGGATCC TTTATTACGA      60
ATTGTGATCA CATCCTCTGA TTGGCAACAT GTTAGCTTTG AAGTGGATCC TACCAGGTTT      120
GTCATCTTTT CACATAGAAC CGCTGTTTTT TGTTTTTTTT TTTTGTGTTG TTGTTTTACT      180
AACACTGCAT GAAGCAAGGC ACCTTCTCCC CTTGATCATT AAAATTAGTT TTAAATTATA      240
AAAGTTATAT ACAAATACAC GTTCTTTTAA TGATATCTGT AATTTTTTTT TAAGGTATCC      300
TTTTATTGTC CTTAGATCCA GGGACAAACT AGAGAAAGGT GTCTTTGACT TCCACCTCCA      360
GAGACTGTTA CTAGTTAAGT CTGTTCCCTT GTCCTTTTTT CATGCACCGC CTCGAG      416

```

## (2) INFORMATION FOR SEQ ID NO:727:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 437 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:727:

GAATTCGGCC	TTCATGGCCT	AAGGAGGTCC	ATGAGGAAGT	GTCCAGCCT	GTCAGTGCAT	60
CTCATGAGTT	CGCTGAGTGA	TCAGCAGACA	GTTCCAGGAA	GTGAACAAGT	CCAAGAGGAC	120
TTCTGATTAG	TCCACAGTCT	CCTCTATAGG	CTCAGTAGAT	GAAGGCGTTT	CTGAGGGCTT	180
GCCTACACTT	CAAAGCACGT	CTAGCACTAA	TGCTCCTCCG	GATGATGATG	ATCGATTGGA	240
AAATGTTTCAG	TATCCCTACC	AACTCTACAT	TGCTCCTTCC	ACCAGCAGTA	CAGAGCGACC	300
AAGTCCAAAT	GGTCCCGACA	GACCTTTTCA	GTGTCCAACC	TGCGGGGTGC	GATTCACCCG	360
TATTCAGAAC	CTAAAGCAGC	ACATGCTCAT	CCACTCAGGA	ATTAAACCAT	TTCAGTGTGA	420
CCGCTGTGGG	TCTCGAG					437

## (2) INFORMATION FOR SEQ ID NO:728:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 451 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:728:

GAATTCGGCC	TTCATGGCCT	AGATCACTGC	CCTTTCAATA	ACACTCTTGC	CTCTAGAATC	60
ATATGTTCAA	AGTATGAATA	CACACCTAGC	ACATAGTAGG	TGCTCAAATA	TTAATTTCTC	120
CCTTGCCTTC	CTTATCTACC	CTGTGTCCTC	CATTTCCTCG	TATGATTCCA	ACCCAATATA	180
GCAAATGACA	TTTACATGTT	ATGAAAACAT	CTATTGGGTA	AAATCAGATC	TTGGATAAAG	240
AAATTCTGAC	TTTTATATAA	GCTTTTGGTA	GACAGAAAAA	ACAGAAAGGT	ATTCGTTGGT	300
AGAACATTTT	TAAGTTCAGG	AAAGAAAGCT	GGAATAATAC	TACGTAACCT	TGTCCAGGTT	360
ACTTTGACTG	AAACACGTTT	TTGGTGGATT	TCTTTCTCTC	AAAGAACTCT	CTAAATGCAA	420
CTCCTTGCTG	GATTCTCTAC	CCGATCTCGA	G			451

## (2) INFORMATION FOR SEQ ID NO:729:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 319 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:729:

GAATTCAACC	ATTAAAGATA	ATTTATATTA	GTGTTTCTAT	AACTTCTAAA	ACATCTTTTG	60
ATAAGGATAA	TAATCTCATT	GTCATTCTGT	ACTGATATTT	GGATATAATC	CTAGCAGGGC	120
ATAGCTCTGA	TTAAGAACAA	TTGAACCATT	CAATTTTTTA	TTAGCCTCTA	TTTTCCTAG	180
CCAGGATATT	TTCATGAAAC	TTTTTAGTTT	CAAAGCAAGT	TTTTTCTTTC	CAATAGAAAG	240
TGTTATATTA	GTAACAATT	TTGTCTTCTG	CCAAGACCAG	CTCAGTCGGG	AAGATCCTAA	300
CCCAGTGGCA	AAACTCGAG					319

## (2) INFORMATION FOR SEQ ID NO:730:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 353 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:730:

GAATTCGGCC	TTCATGGCCT	AGGGAAGAAT	AAAGAACAAA	ACCCAAAAC	TGCGACCTTA	60
AAAAACCCAG	GCTGGCATT	TAGTAGCAAT	TGGGTGTGTT	CGGTTTGTAA	TATATTTGTA	120
TATACATGCC	TCCATGTGCT	TTGGCCTTCT	GGTATCTTCA	CCAGATGCTG	CCTTTTTTTT	180
TTTTTTTAAC	AAGTTCCTGT	TTCACCTTTC	CAGCTAGCTG	CTGGGTATCT	CCAACAAAAT	240
ATCTCATAGA	TCTCCCAACT	GTAATGTATT	CAAGCCAAA	ATCAGCTCTG	CCCATTCTCC	300
ATCCCAAAGC	CCCTCCTCTT	GGTTACCAGA	CAACCTTAAC	CAAACCACTC	GAG	353

(2) INFORMATION FOR SEQ ID NO:731:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 385 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:731:

GAATTCGGCC	TTCATGGCCT	AGAGGAGGAA	GGCCTTCGTA	AAGGTGTCAT	CTCCGTCCCT	60
TCGCTCCCGG	GGACCCGCGG	GAAAAAATA	AATCCAACAC	CCAGGCCCGG	CGGCTAGCCC	120
CTTCCCACAG	GCTCTCTCCG	CTCGATTTTG	TCACCGTTAT	GTGGGAAGCG	AATCCATGTA	180
TTTGCATGCC	CGAGTCTTTG	AGCCGTGCTA	TACCAGTTTG	TCCAGATTGT	TTATACTAGC	240
AATGCAGTTT	ACGGTGAAGA	CCTGCCTTCC	CTCTGGGAAT	CTGGAGCTTC	AGTAACAGGA	300
GATGTTTCAC	AAAGCAGAAG	AATTATTTTC	TAAAACAACA	AACAATGAAG	TGGATGACAT	360
GGACACGTCA	GATACCCAGC	TCGAG				385

(2) INFORMATION FOR SEQ ID NO:732:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 262 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:732:

GAATTCGGCC	TTCATGGCCT	ACTCCGTCTC	CAAAAAAATA	AAAAAATAGT	GTTCAGCAAG	60
GTGAAGCAT	AAAAGGTTAA	TAGCCAGAAT	CATTATCAAA	TGTTATTCT	ATACATCTAC	120
AAGACACAAT	CTGAAAATGA	AATTAGAGAA	ACAATTTTAC	TGGGCAACAA	GAGCAAAACT	180
TCATCTCAAA	ATAATAATAA	TAATAATAAT	AATCATCATC	ATCATCATCA	TCTACAATGT	240
CATTTCCCAT	CCAAGTCTCG	AG				262

(2) INFORMATION FOR SEQ ID NO:733:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 503 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:733:

```

GAATTCGGCC TTCATGGCCT AGACCTGCCT CGAGCTCCTG GCCTCGGGCA CTCTACCCGC      60
TTCAGCCTCC CAAAGTGCTG CGACTGATTA CAAGTATGAG CCACTACGCC TGACCATAAC      120
ATGTAAAATT ATGGCAAATG GTAATTCACA GCTCAATTCT AAAATGTGAT GAAATTTAAA      180
TCAGAAAGGC CAAATGAGTC ACTTTTCTT AACACTAAGA ATTATAAACC TTAAATTTTC      240
TTTTGTACTG TAATTTTTTA TGTGACATGT ATATGCTTTT TAATATGTGT GATAGGATGA      300
GGGGCAGGAG AGGGGGCTCT AGACATGAGG GTGCCTGGGG CCTCTGTAGA CCTTCAGATG      360
GCCCTGGGTG TTATAGCAAG AGCTGGTCTA CATCTAATAC TACTGCAGGT GCTGTCATGA      420
ATTCTTTGTA TAATTCCTTG TATATTAAAT GACATTATTC TATGTATAAT GTCATTTAAT      480
ACTTATAACC TACTTTCCTC GAG                                         503

```

## (2) INFORMATION FOR SEQ ID NO:734:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 431 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:734:

```

GAATTCGGCC TTCATGGCNT AATGGATTCA TTTTTTTTCA GCAGCATGGC ATAGTGGATT      60
ATGAAATCAA AATTAACTAC ATGTGGAGTC NTACATTGAA ATCCCCCTTC AACAAAATAG      120
TATACTATGA GTATTTTAA ATTATTTAAC CCCTCCGAAC ACCAATTTGT ACACGAATAA      180
AACTTGACAC AACAGGATTT TGTGGGGCGT GAGTAACACA ACATATACAA AAGCACCTTA      240
TAAAGTGTTT TATATAGCAA CTTCTCTCTC AGTTTGAACG GGTCTCAGGA TAAATTAGCA      300
AATATGAATT CTAACCTTTG TACTTACATT TTAATCTGTC TAAGTGTGTG AACCCCAATT      360
TAGCAATTAA AATATTATT TCCAGAATGT TTTGACCCTG AGCATATTTT TAAAAAGCAC      420
AGTAGCTCGA G                                         431

```

## (2) INFORMATION FOR SEQ ID NO:735:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 259 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:735:

```

AAAAGTGACT GAAAGTTTGC TAGTGTTTTT AGTACCGATA TTTACTGGTA GTAAATATAT      60
ACTAAATCCA GTGAAATATG ACTTCTCTAA CTGAGCTTGA CATATCCTGG TTATATCTCA      120
TGGCAGCTGA AAAC TAGAAA TGA CTATTATTT TTACCTTGTA GCCACAGCAC ACTTGAGGTT      180
ATTCTTAGGT TTTTGTAGA GACAAAGCTG GTTAGTGACT CCTGGATTAA GAATTATGAG      240
TGATCCCATG ACCCTCGAG                                         259

```

## (2) INFORMATION FOR SEQ ID NO:736:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 443 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:736:

```

GAATTCGGCC TTCATGGCCT AAAGGATATT GGCATGTTCC TCTTCTCATC AATATCCTAA      60
AAGACATTTA TTTTTCACAC ACTCCTTGGG AAAAATTAAC TTTTTCAC TGAAAATATT      120
TCCTTTTTTG GTTATCTTGA TCTCAGATTA TTTTGTGAAA GAATTTTACT GTACTTAGTT      180
CAAAAGAGTA GAAAGAATGA TTTACTATTG CAGACATATG TAGGGTAAAA TCATAATTTA      240
TTTAAACTGA CTGTACAACA CCATTTAGAG TTGATATTGA CATAAATGTT ATTAGCCTAC      300
TAATTTGGAA CTGCATTCTT CAACAATGCT GGCAAGCATC TTCCGTACTT AGCATACCAA      360
GTTGTAGGGG AGAGACTGTG TATATATTTT TTAAGCAA TCCAATGGAT TTGTTTTTGT      420
TCATATTTTG GAAACAATC GAG                                         443

```

(2) INFORMATION FOR SEQ ID NO:737:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 482 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:737:

```

GAATTCGGCT TCATGGCCTA CAAAAGATGG CCCTAAGCCT GGCCTCTAGC TTTCACTCGT      60
GGTGAATATT TCAGACCTAA AGATCCAGAT AGTATCTCTG TTCATATGTG AATAAGTTGA      120
AGATTGTGGG GCTACTTTTT CTCATAGCAC TTTATTTTGA ATGTTGTAGT TTTGTGCTGA      180
GAATGGTCGT CCGTATTTGA ACCAATTATT TATTTTAAAA TATATTTAAG CTACATTTTT      240
GTTTTGAAAA ATTGCCATAA ATTTGGTGCC ACTTTCTTTT ATTTATTTGA CTGAGTTAAT      300
ATTATTGTAT TAACATTTTA AGTATATGGT GTTTACATTC TTATTTCTTT TGACATTTTG      360
GAAATAATCA TAACTTGTCT TTCCAAAATA ACCATTTTCT TGATGGAAC CTTCCTAGAG      420
TTTTTACCAA ATAGCTAACT TTAGTAGTAA AACCTCATG TGTATCCATT CCCCACCTCG      480
AG                                         482

```

(2) INFORMATION FOR SEQ ID NO:738:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 474 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:738:

```

GAATTCGGCC TTCATGGCCT AGATTGTCAG TTTATCTTAG ATGATGAGGA AGCAGTACCA      60
AGAAAACACT TGGGGGTGA TACAACAGGC ACATGAGCCC TTAAACTCC TTCCTGTTTT      120
TTTTCTTTTT TTTTCTCTT AGGTAGATTA GTGCATTAA AGCCTGAAGT TAATTGACC      180
TAAAATTTTT ATAAGTCTTT GCAGAAAGTT CACTTGTTTC CTGAAATCAT CTCCTTGATA      240
ATTTTTTATG TAACAGTTGT TCATATTGTA GGAATGATAT ATATGTCATC CTGTTACACG      300
TGTCAGGCAC TTCAAAAAGA CTCCAAGAGA ACATGCCTGA GAAAGATAAC TCCCAATTAA      360
AAATGATTCA GTCCTCACT TGCAATATTC AGGATAAATG TGTGGAAACA TTAGGCTACC      420
AGATAAATAA AAGGTAGTTA TTTCTAGGG TGACTCAGCA AGATATTTCT CGAG      474

```

(2) INFORMATION FOR SEQ ID NO:739:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 211 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:739:

```
GAATTCGGCC TTCATGGCCT AGCCTTTGAG ATCAATACCT GTGAAAAGTA GGGAAAGAAA      60
GCAGATGAGG CATAGGGAAA AGGTGGACTG CCACAGGCAA CCCAGCGAAC CTCACCAGCA      120
GCTCTGGAGC TAAAATAGCT CTTCAGAATT GTCCAGAGTT GGGCTGAGGA GGCCAGAATT      180
TTATTTGTGT TCCCACGATG ACGACTTCGA G                                     211
```

(2) INFORMATION FOR SEQ ID NO:740:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 377 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:740:

```
GAATTCGGCC TTCATGGCCT AAATACCTTA ATGGTGGTAG AGCCTTTACC TGTAGCTTGA      60
AAGGGGAAAG ATTGGAGGTA AGAGAGAAAA TGAAAGAACA CCTCTGGGTC CTTCTGTCCA      120
GTTTTAGCA CTAGTCTTAC TCAGCTATCC ATTATAGTTT TGCCCTTAAG AAGTCATGAT      180
TAACTTATGA AAAAATTATT TGGGGACAGG AGTGTGATAC CTTCTTGGT TTTTTTTTGC      240
AGCCCTCAA TCCTATCTTC CTGCCCCACA ATGTGAGCAG CTACCCCTGA TACTCCTTTT      300
CTTTAATGAT TTAACATCA ACTTGATAAA TAACTTATAG GTGATAGTGA TAATTCCTGA      360
TTCCAAGAAT GCTCGAG                                     377
```

(2) INFORMATION FOR SEQ ID NO:741:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 343 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:741:

```
GAATTCGGCC TTCATGGCCT AAGGCGTTTG GGGTTTCCTA GTTGTGCTGC TGCTCTTGCC      60
TAGGGAATCT GCTCTTGCTT TGGCCTCTTT CCTTGGGGCA AGAGTGAGGG GGACAGGGAG      120
CTTCAAGTCA GCCCTCCATG TTGAAGTTTG GTAGAAGCTC TGCCACACC TTGGACTGGA      180
ACCCAGCCAT GCCAATCCCC ATGATCACCA ATCCGAACCC CTGAAGTAG AATTTTCATA      240
CCCTACTGAC TAACCACCTT CTTAGCCAGG CCATAGCCAT TCAGCAGTGC CTCCTTCCTC      300
TGGGTAGACA AACAGCCTTG AACAGAAAGG TGGAACACTC GAG                                     343
```

(2) INFORMATION FOR SEQ ID NO:742:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 259 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:742:

GAATTCGGCC	TTCTGGCCTA	GAGTCCTTGT	TGTCCTTTGC	AAAGGTTGCT	CATCACCTCT	60
CCCCCTCCCTC	TGGCTCTTTT	CCGTGGTGAT	GCATAGTTCA	ATGCGCCCAG	GAAGCTTCAT	120
GATGAGGCCG	TCACCCAAAC	TAGCAGCCCT	CCTTTCCTTC	TTTCTTTGCC	AAGTGTCTCG	180
GACATCAGCT	CTTCCTCAGT	CTTTGACTCT	AAATAAAGAA	CTTGAATTC	ACCATTCAAC	240
TGAAATCCCT	CTAACCTCG					259

(2) INFORMATION FOR SEQ ID NO:743:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 450 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:743:

GAATTCGGCC	TTCATGGCCT	ACACCGTCGC	CATTGCCAGA	AAGAGCGATT	TATGGCTTTG	60
TTCTTTTCTT	AAGCTCCCAA	TTTGGCTTCA	TACTTTACCT	CGTGTGGGCC	TTTATTCTCG	120
AATCTTGGCT	AAACTCTTTA	GGTTTAACT	ATTGGCCTCA	AAAATATTGG	GCAGTTGCAT	180
TACCTGTCTA	CCTCCTTATT	GCTATAGTAA	TTGGCTACGT	GCTCTTGTTT	GGGATTAACA	240
TGATGAGTAC	CTCTCCACTC	GACTCCATCC	ATACAATCAC	AGATAACTAT	GCAAAAAATC	300
AACAGCAGAA	GAAATACCAA	GAGGAGGCCA	TTCCAGCCTT	AAGAGATATT	TCTATTAGTG	360
AAGTAAACCA	AATGTCTTTT	CTTGCAGCCA	AAGAACTTTA	CACCAAAAAC	TGAAGTGTGT	420
GTAACCATAG	TAACACCAAG	CACACTCGAG				450

(2) INFORMATION FOR SEQ ID NO:744:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 243 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:744:

GAATTCGGCC	TTCATGGCCT	AAATCTTCAG	GGTCTTAACT	TAGTTTTTGA	TCCCTAAAT	60
TAGTGCTGCA	TATGTAGACT	CAGAAACCTC	ACGTAAAAAT	TTAAATTGGC	CTCAGGTTGG	120
CAATGTTCCA	AGGCAATGGT	TAGAAGCAAA	TTCAGATTCT	CCAAGGCCTC	AAATAATTCC	180
TACAGATAAA	ATCCCAAGGA	AATTCAGCAG	TGCCTAGTCA	AAAATCCACA	AATCAGGCTC	240
GAG						243

(2) INFORMATION FOR SEQ ID NO:745:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 236 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear



(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:745:

AAGCGAGGCC	CTGGGGGACA	ACGTGAAACA	ATACTGGGCT	AACCTAAAGC	TGTGGTTCAA	60
GCAGAAGATC	AGCAAAGAGG	AGTTTGACCT	TGAAGCTCAT	AGACTTCTCA	CACAGGATAA	120
TGTCCATTCT	CACAATGATT	TCCTCCTGGC	CATTCTCAGC	CGTTGTCAGA	TTTTGGTTTC	180
TACACCAGAT	GGTGCTGGAT	CTTTGCCTTG	GCCAGGGGGT	TCCGCAGCTT	CTCGAG	236

(2) INFORMATION FOR SEQ ID NO:746:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 215 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:746:

GAATTCTAGA	CCTGCCTCGA	GCCTGCAGAC	ATCTCCTCCT	TCTTTGTGGT	TCTGGGAGCC	60
ATTCTGTGCC	TCTAAGGTCC	TCTTTCTTTT	TTCTCACCAA	TACACATATT	TTCTGTCCTT	120
CGCAATTCTA	TTAAACCTCA	CATTTGATGG	TTGTTTTCTT	AAAATTCCTT	TACTTGGTTC	180
CTGCATTCTC	CATTCTTCC	CAGCACAAATC	TCGAG			215

(2) INFORMATION FOR SEQ ID NO:747:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 233 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:747:

GAATTCGGCC	TTTCATGGCCT	AGAAGAAAAC	CCATCAGATA	TTATAATAAG	ACAATAACTC	60
AATTTACAGC	TTGTAAACAA	AGGTGACATT	AATCTATTGA	AATGTGGGAA	AATAGTCAAC	120
CTGTATCCTT	CTCATACCAT	AAATCAGCAT	GTTTGATCAC	TGGAAGCTTC	ATTTTGATGA	180
TTAGCAGTCA	TGTATTGAGG	CTAAATGATA	TGTTGTGCGC	ACAGCATCTC	GAG	233

(2) INFORMATION FOR SEQ ID NO:748:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 270 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:748:

GAATTCGCCT	TCATGGCCTA	CACAGGAGAA	AAACCCTATG	AATGTAGTGA	ATGTGGGAAA	60
ACTTTTGTTT	AGAAGTCCAC	CCTCAGAGAT	CATCACAGAA	TTCACACAGG	GGAGAAATCC	120
TTTCAATGCA	ATCAATGTGG	AAAAACATTT	GGCCAGAAGT	CAAACCTCAG	AATACATCAG	180

AGAACTCACA CTGGGGAGAA AACTTACCAG TGTAATGAAT GTGAAAAATC CTTCTGGCGA 240  
 AAAGATCATC TCATTCAACA TCAACTCGAG 270

## (2) INFORMATION FOR SEQ ID NO:749:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 309 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:749:

GAATTCTAGT TTAATTACAT ATACCTCTCT GTTGGCTTAG TAGTAATAAA AATATTTTCT 60  
 GTAGGTGTAG AATATCCTTA CAGTCCAAAA GGAGAGTACA TGTTCACAAT TAAAGTTTGA 120  
 AATTGTGCT TTGATAACAG CATGTTTTAT TCATTCATTT TTATAATAAT ATTACTGAGC 180  
 CTGTATCATA TAGTGATGAA CTTTTCAGCT GTTTTGAGGG TTTGTGTAG CCACATTCAC 240  
 ATTTGTATAA CCTGTGTTTC TTTTATTATT TTCTTTATTT TCATTTTAGA TTCAGGGGGT 300  
 CGGCTCGAG 309

## (2) INFORMATION FOR SEQ ID NO:750:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 328 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:750:

GAATTCGGCC TTCATGGCCT AAGCTCTTTT AGTGAAGGAT TGTTTTAAAT AAGAGCTCTC 60  
 AGTTCAAGAC AACTACTGTT AGGAGCTTAA ATCGGAACCA CAATCAGCAT ATAAAGGTCC 120  
 TAATCCTGAC CTTAATCCCT TTGGAATATT GGTTTTATAA ATCATCAATC AACAGTGTTC 180  
 CACTATGAAA GCATATTCTG TCTTCTTCTT TTCATGTATT CCTTCACTGC TGGTGCTTAA 240  
 TGTCTTTCCT TCCTCTTCTG CCATTTCTCT TTCCATGAAT TATAATTGCC TTTTGAATTC 300  
 AGAAATTAAA ACCACTCCAC AGCTCGAG 328

## (2) INFORMATION FOR SEQ ID NO:751:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 239 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:751:

GAATTCGGCC TTCATGGCCT AATAAGGAAG AAATTGTCTC ACTTTATTGA ATAGTTGATT 60  
 TAAATTTTCT GGTATTTAGA GGTAATATAG TATAAGTTT TTGTATATTT ATCTAAGATT 120  
 TTCCTTTTGA AAATTTTCTT CCCTTTTCAT ATTATTTTCA TTAAACGATT TTCCTTTAAA 180  
 ATTTGTTACT AACAAGAACT ATCTAATATG CAATGAGATT TTTGCAGGGC ATTCTCGAG 239

## (2) INFORMATION FOR SEQ ID NO:752:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 231 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:752:

```
GAATTCGGCC TTCATGGCCT AAGGAAAGTA CTTTAGACAA AAAAAAAAAA AAAAGTGAAA      60
TTAATTCCTG GGGCAATGAA AGGAAATGTC ATTGGCAGTT TTACCTTTAT TCTGCTAATG      120
GCTATTGTGT GTCTGTTTAC CTGGAGGCAC TTGGAACCTG TGGCACAGAA TGCTGTATGT      180
ACAGGATATC ATCTACATGG GAATAATTGT TGTAACACCC CCAAACCTCGA G                231
```

(2) INFORMATION FOR SEQ ID NO:753:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 308 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:753:

```
GAATTCGGCC TTCATGGCCT ACAATAGAGC TCTTAACTT ATTAACTGA AATTTTGTAT      60
CTTTTCACCA ACATTTCCCC AACTCCCCTT TACCCCACT ACTCCAGCCA CTGATAACCA      120
CCATTCTGTT CTCTATTTCT TTTTCTTTT TTTTTTTTT TTTTAAAGAG ATGGCGTCTT      180
GCTGTGTCGC CCAGGCTGAA GGGCAGTGGC ATGATCTCGG CTTACTGCAA CCTCTGCCTC      240
CCCGGTTTAA GCAATTCTCT ACCTCAGCCT CCCGAGTAGC TGGGATTACA AGCACCCATC      300
CACTCGAG                                     308
```

(2) INFORMATION FOR SEQ ID NO:754:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 124 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:754:

```
GAATTCTAGA CCTGCCTCGA GCCCTTTGTG GTTTTAAAGA AAAAAATTCT GTGCAGATCT      60
GTTCTCTCTC CTGCTCCTTC CCTTTTCTCT ACATACAGTG CTCATTGGAG GCTCCCCACT      120
CGAG                                     124
```

(2) INFORMATION FOR SEQ ID NO:755:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 369 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:755:

GAATTCGGCC	TTCATGGCCT	AATCGGTGTC	TTTGGTAAAA	ATTCTATGAG	GATGACATAT	60
TCCATCATGT	TATTCGTTTC	ACATTTCTTT	TTGCTCAGTC	TCCAATGCAA	GCACAGCTTG	120
TGGTATAACC	TATTGTTTTT	CCATTCTAAT	AACCTCTCAA	TCGATCTTCG	TGTTCTTTTA	180
CTGAGGCAAA	TAACTGGCCA	CATACTGCAA	CCTAATGTGC	AGCAGCAACA	AAGGCAGCCA	240
CAAAGTAGCC	AACGTACATT	AACAGGAAGG	TTCTTCTTAA	GACAACTGTT	AACCTCTGTTG	300
ATGCTGGCTT	TAAATTCTTC	AGGAGCTACT	TTTTCAGTTA	ATGAAGAAGG	GAATTCAGAT	360
TCAAATTTG						369

## (2) INFORMATION FOR SEQ ID NO:756:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 394 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:756:

GAATTCGGCC	TTCATGGCCT	ACCGGCGAGG	AATAGGAATC	ATGGCGGCTG	CGCTGTTTCGT	60
GCTGCTGGGA	TTCGCGCTGC	TGGGCACCCA	CGGAGCCTCC	GGGGCTGCCG	GCACAGTCTT	120
CACTACCGTA	GAAGACCTTG	GCTCCAAGAT	ACTCCTCACC	TGCTCCTTGA	ATGACAGCCG	180
CACAGAGGTC	ACAGGGCACC	GCTGGCTGAA	GGGGGGCGTG	GTGCTGAAGG	AGGATGCGCT	240
GCCCGGCCAG	AAAACGGAGT	TCAAGGTGGA	CTCGGACGAC	CAGTGGGGAG	AGTACTCCTG	300
CGTCTTCCTC	CCCGAGCCCA	TGGGCACGGC	CAACATCCAG	CTCCACGGGC	CTCCCAGAGT	360
GAAGGCTGTG	AAGTCGTCAG	AACGCATCCT	CGAG			394

## (2) INFORMATION FOR SEQ ID NO:757:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 497 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:757:

GAATTCGGCC	TTCATGGCCT	ACTGATGTTG	AAGACGACAC	CACGGCTTTG	ATGGAATATC	60
AGATATTGAA	AATGTCTCTC	TGCCTGTTCA	TCCTTCTGTT	TCTCACACCT	GGTATTTTAT	120
GCATTTGTCC	TCTCCAATGT	ATATGCACAG	AGAGGCACAG	GCATGTGGAC	TGTTCAGGCA	180
GAAACTTGTC	TACATTACCA	TCTGGACTGC	AAGAGAATAT	TATACATTTA	AACCTGTCTT	240
ATAACCACTT	TACTGATCTG	CATAACCAGT	TAACCCAATA	TACCAATCTG	AGGACCCTGG	300
ACATTTCAAA	CAACAGGCTT	GAAAGCCTGC	CTGCTCACTT	ACCTCGGTCT	CTGTGGAACA	360
TGTCTGCTGC	TAACAACAAC	ATTAAACTTC	TTGACAAATC	TGATACTGCT	TATCAGTGGA	420
ATCTTAAATA	TCTGGATGTT	TCTAAGAACA	TGCTGGAAAA	GGTTGTCCTC	ATTAAAAATA	480
CACCTAAGAAG	TCTCGAG					497

## (2) INFORMATION FOR SEQ ID NO:758:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 242 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:758:

GAATTCGGCC	TTCATGGCCT	AACCAAATCA	ACAACAACCT	ATTTAGCTGT	TCCCCAACCT	60
TTTCCTCCGA	CCCCCTAACA	ACCCCCTCC	TAATACTAAC	TACCTGACTC	CTACCCCTCA	120
CAATCATGGC	AAGCCAACGC	CACTTATCCA	GTGAACCACT	ATCACGAAAA	AAACTCTACC	180
TCTCTATACT	AATCTCCCTA	CAAATCTCCT	TAATTATAAC	ATTACAGGCC	ACAAAACTCG	240
AG						242

(2) INFORMATION FOR SEQ ID NO:759:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 221 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:759:

GAATTCGGCC	TTCATAGCCT	ACCTAAATTA	ATAATAATGT	ATAGTTCAGA	ATTGCTAAGA	60
GTACTTTTTT	TTTTTTTTTT	TNGAGACAGG	TTCTCGCTCT	GCCCTCCAGC	CTGGTGACAG	120
AGCAAGATTC	CATCTCAAAA	AAGAAAAAAA	ACACACAGCT	AATAGAATTG	CATTGTTTT	180
TCATAATAGA	ATCTAGCTGC	TTACTCCAAC	CTCACCTCGA	G		221

(2) INFORMATION FOR SEQ ID NO:760:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 555 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:760:

GAATTCGGCC	TTCATGGCCT	AAAATCAAAG	ACTTTGCCAA	TACCATTCTT	GGCCATGGAG	60
GCATCATGGA	TCGCTTTGAC	TGCCAGTATC	TGATGGCCAC	CTTTGTCAAT	GTATACATCG	120
CCAGTTTTAT	CAGAGGCCCT	AACCCAAGCA	AACTGATTCA	GCAGTTCCTG	ACTTTACGGC	180
CAGATCAGCA	GCTCCACATC	TTCAACACGC	TGCGGTCTCA	TCTGATCGAC	AAAGGGATGC	240
TGACATCCAC	CACAGAGGAC	GAGTAGGGGC	CACCCAGGGC	CAGGAGAACA	GGAACAGAAC	300
TGAGCAGGGG	CAGGTCTCCA	AGGCAAGCCC	AGCTGGTGTG	ACTTAGACAA	TGACGAGGCT	360
TCAACTCACT	GTCTTTTTTT	TTTTTTTTTG	GAGGGTATTT	TTTATTGTG	GGTTCAAAAA	420
ATCTGTATAT	ACAGTCTATG	TGTTTAGAAT	TTGTGTTGTA	AGTAAACTAC	AGCTTTGAGT	480
TGGAAAGAAG	TCACGGGTTG	TAAAACCATT	TGGATTTTTT	TAAAACAAAA	GTATTAATAA	540
TCTGGAAGAC	TCGAG					555

(2) INFORMATION FOR SEQ ID NO:761:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 324 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:761:

```

GGCCGATCAG GTTATTTTTT GAAAGTTTGA CTTACAGAGC ATATAAATTA CCCTTGGTTA      60
TTCTCAGCTG TGATTGAGTT CTGTGAAAGC ATAGTACCCT AGTACCCTGG GATATCTCTA      120
CATGTGAAAT TATTCAAATG TCTCCCTTAC TTTTTTTTTT TTTTITTTTG AGACAGGCTC      180
TGTTGCCCAT GCTGCAGTGC AGTGGCACAA CTATGGCTCA TCTCAGCCTC GACCTCCTGG      240
GCTCAAGCGA TCCTCCCACC TCAGCCCCCC AGGCAGCTGG GACCACAGGC ACACACCACC      300
ATGTCAGGCC AATTCCTGTA TTTT                                     324

```

## (2) INFORMATION FOR SEQ ID NO:762:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 333 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:762:

```

GAATTCGGCC TTCATGGCCT AGTGCCGGGG AGAAAGGGCT TCCTCCCCCA CACATCAGAC      60
AGGGCACCAA TGAGTGGGGC ACTCAAAAAA GAGAGCAGGC CCTGGAGAGG AAACCAAAGC      120
AAAGGTTAGT TTTATAATCT GATCCCTCAA TTACCTGTAA TTCATATTTT CTAAATGCAT      180
TAGCTCTAAT TCATTGTACT GCCCCCAAAA CAGAATAATA CTTTGAAACA TTAAATACAA      240
ACTACAATAA AAAAAATAAA ATTAGGCCTG GCGTGGTGGC TCATGCCTGT AATCCCAGCA      300
CTTTGGAAGG CCGAGGCGGG TGGATCACTC GAG                                     333

```

## (2) INFORMATION FOR SEQ ID NO:763:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 303 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:763:

```

GAATTCGGCC TTCATGGCCT AATTGAATC AACACAACCA CCCACAGCCT AATTATTAGC      60
ATCATCCCTC TACTATTTT TAACCAAATC AACACAACCC TATTTAGCTG TTCCCCAACC      120
TTTTCTCCG ACCCCCTAAC AACCCCTCTC CTAATACTAA CTACCTGACT CCTACCCTC      180
ACAATCATGG CAAGCCAACG CCACTTATCC AGTGAACCAC TATCACGAAA AAAACTCTAC      240
CTCTCTATAC TAATCTCCCT ACAAATCTCC TTAATTATAA CATTCAACAC CACAGAACTC      300
GAG                                     303

```

## (2) INFORMATION FOR SEQ ID NO:764:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 265 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:764:

GAATTCGGCC	TTCATGGCCT	AGGGATTAA	AGAGTTTTTC	TTGGGTGTTT	GTCAAACCTT	60
TATTCCTGT	CTGTGTGCAG	AGGGGATTCA	ACTTCAATTT	TTCTGCAGTG	GCTCTGGGTC	120
CAGCCCCTTA	CTTAAAGATC	TGGAAAGCAT	GAAGACTGGG	CTTTTTTTCC	TATGTCTCTT	180
GGGAACTGCA	GCTGCAATCC	CGACAAATGC	AAGATTATTA	TCTGATCATT	CCAAACCAAC	240
GTCTGAAACG	GTAGCACCTC	TCGAG				265

## (2) INFORMATION FOR SEQ ID NO:765:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 427 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:765:

GAATTCGGCC	TTCATGGCCT	ACCAACAGCA	AGCTCCAATA	TCACACATCC	AGACTCCTAT	60
GCTTTCCCAA	GAACAGGCAC	AACCCCGCA	GCAGGGTTTA	TTTCAGCCTC	AGGTGGCCCT	120
GGGCTCCCTT	CCACCTAATC	CAATGCCTCA	AAGCCAACAA	GGAACCATGT	TCCAGTCACA	180
GCACTCAATA	GTTGCCATGC	AGAGTAACTC	TCCATCCCAG	GAACAGCAGC	AGCAGCAGCA	240
ACAGCAGCAG	CAACAGCAGC	AGCAACAACA	ACAGAGCATT	TTATTGAGTA	ATCAGAATAC	300
CATGGCTACA	ATGGCGTCTC	CAAAGCAACC	ACCACCAAAC	ATGATATTCA	ACCCAAATCA	360
AAATCCAATG	GCTAATCAGG	AGCAACAGAA	CCAGTCAATT	TTTCACCAAC	AAAGTAACAG	420
TCTCGAG						427

## (2) INFORMATION FOR SEQ ID NO:766:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 275 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:766:

CGATTGAATT	CTTGCTGTT	CTGCCTCACT	CCCGAGTCT	ACTGACTCCC	AACAGAGCGC	60
CCAAGAAGAA	AATGGCCATA	AGTGGAGTCC	CTGTGCTAGG	ATTTTTCATC	ATAGCTGTGC	120
TGATGAGCGC	TCAGGAATCA	TGGGCTATCA	AAGAAGAACA	TGTGATCATC	CAGGCCGAGT	180
TCTATCTGAA	TCCTGACCAA	TCAGGCGAGT	TTATGTTTGA	CTTTGATGGT	GATGAGATTT	240
TCCATGTGGA	TATGGCAAAG	AAGGAGGGTC	TCGAG			275

## (2) INFORMATION FOR SEQ ID NO:767:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 341 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:767:

GAATTCGGCC	TTCATGGCCT	ACGTAATTCT	GGAAAAGTGA	ATACTTGTTGA	AGAGTCGTCT	60
TGAATGATTT	GTAATAAATC	CTGTTCTTAT	ATTCAACGAG	TTTCGAATCT	TTGTCAGAGG	120

AGTATTACCA	TTAGATTGAA	AAAAAGGAAA	ATAAATAATA	AACACTTTTA	AAAAAACTCC	180
CCATTCTCTT	ATTCTCACTT	TTAGGAAAAG	AGACTGACTA	ATATCTTCTG	CCACAAATAC	240
CGATGTTCTT	AAAAATATTT	ATGGGACTGC	TTTTGGCAAC	CAGCCCTATT	TTGTTTTCAT	300
ATCCCTTTT	GCTCCCATCT	TTCCAACTC	ATAAACTCGA	G		341

## (2) INFORMATION FOR SEQ ID NO:768:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 281 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:768:

GAATTCGGCC	TCATGGCCT	ACAGAAAGAG	TTGAGACCT	GAATAGCTCC	CAGATTTCAG	60
TCTTTTCCTG	TTTTGTAA	CTTTGGGTTA	AAAAAAAAAA	AAGTCTGATT	GGTTTTAATT	120
GAAGGAAAGA	TTGTACTAC	AGTTCTTTTG	TTGTAAAGAG	TTGTGTTGTT	CTTTCCCCC	180
AAAGTGGTTT	CAGCAATATT	TAAGGAGATG	TAAGAGCTTT	ACAAAAAGAC	ACTTGATACT	240
TGTTTTCAAA	CCAGTATACA	AGATAAGCTT	CCAGGCTCGA	G		281

## (2) INFORMATION FOR SEQ ID NO:769:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 352 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:769:

GAATTCGGCC	TCATGGCCT	ACTAACGAGG	AAAGGGATT	AAAGAGTTT	TCTTGGGTGT	60
TTGTCAAAC	TTTATCCCT	GTCTGTGTGC	AGAGGGGATT	CAACTTCAAT	TTTTCTGCAG	120
TGGCTCTGGG	TCCAGCCCCT	TACTTAAAGA	TCTGGAAAAGC	ATGAAGACTG	GGCTTTT	180
CCTATGTCTC	TTGGGAACTG	CAGCTGCAAT	CCCGACAAAT	GCAAGATTAT	TATCTGATCA	240
TTCCAAACCA	ACTGCTGAAA	CGGTAGCACC	TGACAACACT	GCAATCCCCA	GTTTAAGGGC	300
TGAAGCTGAA	GAAAATGAAA	AAGAAACAGC	AGTATCCACA	GAGAGACTCG	AG	352

## (2) INFORMATION FOR SEQ ID NO:770:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 316 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:770:

GAGCGTGGTG	GATATAAAAC	AGGTAAGAGA	CTTTCATGGT	ATACCTTTAT	ATTGTTGGAT	60
TAAAGGCACT	GCCAACCTCA	AAAACCTTAAC	CGAAAAATTT	TTTAAATCAG	TTAAATATT	120
ACTGATATGA	AAATGACATG	AAACTAACTT	TTTGTGTTTT	ACTTAAAGGG	TGCTCTGTTT	180
GAAACTTCCT	CAGACAACTG	AATGGGAGAA	CCAGATGAAT	TTAGTAAAG	TATTAACGTC	240
AAATATTTAT	ACTGCTTTTT	TTGTTTGT	TGTTTTGAG	ACAGAATCTT	GCTCTGTTGC	300



CCAGGCTGGT CTCGAG

316

## (2) INFORMATION FOR SEQ ID NO:771:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 473 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:771:

GAATTCGGCC	TTCATGGCCT	ACTTTGATGG	AATATCAGAT	ATTGAAAATG	TCTCTCTGCC	60
TGTTTCATCCT	TCTGTTTCTC	ACACCTGGTA	TTTTATGCAT	TTGTCCTCTC	CAATGTATAT	120
GCACAGAGAG	GCACAGGCAT	GTGGACTGTT	CAGGCAGAAA	CTTGTCTACA	TTACCATCTG	180
GACTGCAAGA	GAATATTATA	CATTAAACC	TGTCTTATAA	CCACTTTACT	GATCTGCATA	240
ACCACTTAAC	CCAATATACC	AATCTGAGGA	CCCTGGACAT	TTCAAACAAC	AGGCTTGAAA	300
GCCTGCCTGC	TCACTTACCT	CGGTCTCTGT	GGAACATGTC	TGCTGCTAAC	AACAACATTA	360
AACCTCTTGA	CAAATCTGAT	ACTGCTTATC	AGTGGAATCT	TAAATATCTG	GATGTTTCTA	420
AGAACATGCT	GGAAAAGGTT	GTCCTCATTA	AAAATACACT	AAGAAGTCTC	GAG	473

## (2) INFORMATION FOR SEQ ID NO:772:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 253 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:772:

ATACAGTAAT	CAAAGTAAGT	AATATTTCAA	TCCAATATTT	TAAAAATCA	GAATTAATGC	60
AAAAAAAACC	ATGATGAACA	AAATATTAAA	ATTTAAAATA	AAGACAGGAT	TAGTATTACT	120
GAGTTTTCCT	TTGTCCAG	GCTCTAATAT	GGCTTGGCAT	GGGGCAGAAC	ATTACAACAT	180
ACCACTCGTG	TCATGGTGCC	CAAGGCTCCA	CAGACCTCAG	TGGCTCCCTG	CTGCCTGCCA	240
CAGCAATCTC	GAG					253

## (2) INFORMATION FOR SEQ ID NO:773:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 286 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:773:

GAATTCGGCC	TTCATGGCCT	AGTGAGAATT	GACTGTTGCT	TTTGTTTGCC	TGCTTACTGT	60
TTTCTTTTAT	TTATTTGTTT	TTGGACCTGT	GGCACAAAGG	ATCTGTTTAC	TGACCATCCT	120
TATTGTGAGG	CACACAGTCA	CCATGGCACC	CTGCGCGTTA	CTCCTGTTCC	ACTTGTTTAT	180
TCTCTGTATC	CCCATACTAG	TTATTATCGA	AACCATCAGC	CTACTCATTC	AACCAATAGC	240
CCTGGCCGTA	CGCCTAACCG	CTAACATTAC	TACAGGCCAC	CTCGAG		286

## (2) INFORMATION FOR SEQ ID NO:774:.

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 380 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:774:

```

GAGGCTGACA AAATACTCAC CTTTACCTTT ATTTTTCAT TTTATACTCA CAACCATATT      60
TTTTTTGGCC CCCTTCCCTT TATTTTAACT CATAACTGAT ACTTAAAGGT GCTCTGCCTT      120
ATTAAATCAG CTCCTAGGCT GCAAGTGCAT AATATTTAAA AATTTGCAAC TTGACTTTT      180
TAAAAATCTG GTCTTGGTAT GGAGCAACTT TGCCTTTTTT TTTTTTTTTT TTGAGACAGA      240
GTCTCGCTTT NTCGCCCAGG CTGGAGTGCA GTGGTCCCAT CTCAGCTCAC TGCAACCTCC      300
TCCTCCCGGG TTCAAGAGAT TCTCCTGCCT CAGCCTCCCG AGTAGCTGGG ATTACAGGTG      360
CCTGCCCCAA CACCCTCGAG

```

## (2) INFORMATION FOR SEQ ID NO:775:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 347 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:775:

```

GGCCTGGTAG GATAAGAATA TAAACTTCAG GGTGACCGAA AAATCAGAAT AGGTGTTGGT      60
ATAGAATGGG GTCTCCTCCT CCGGCGGGGT CGAAGAAGGT GGTGTTGAGG TTGCGGTCTG      120
TTAGTAGTAT AGTGATGCCA GCAGCTAGGA CTGGGAGAGA TAGGAGAAGT AGGACTGCTG      180
TGATTAGGAC GGATCAGACG AAGAGGGGCG TTTGGTATTG GGTTATGGCA GGGGGTTTTA      240
TATTGATAAT TGTTGTGATG AAATTGATGG CCCCTAAGAT AGAGGAGACA CCTGCTAGGT      300
GTAAGGAGAA GATGGTTAGG TCTACGGAGG CTCCAGGGAA GCTCGAG

```

## (2) INFORMATION FOR SEQ ID NO:776:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 348 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:776:

```

GAATTCGGCC TTCATGGCCT AAGAGGATAA GGGAAGAAAA AGAAGAAAGT ATTCCATTCC      60
CACATCCCTT TAGGTTGGCT TCTATTTTAA TGTTTTTGTT GGTGTGTTTA TTTTGCTTTG      120
TTAATATTTT CAAGTAGCTA TAGAAACGTT TGCAATTCCT ATTACTGATT AGCATTCCAA      180
AACTTGTAAG TGAACATTTT TCTCTCTTTC TTTTCTTTT TTTTCTTNGAG ACAGGGTCTC      240
GCTCTGTCAC CAAGCTGGAG TGCAAGTGGC CAAGATCCTA CTGCTGTCCA TTCCAGCCTG      300
GGTGACAGAA CAAGACCTTG TCCGCCCCACC TTCCACCCCC CCCTCGAG

```

## (2) INFORMATION FOR SEQ ID NO:777:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 377 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:777:

```
GAATTCGGCC TTCATGGCCT ACATGTTTAT TGAGCATTTA CTGTTTACCC ATCAGTATTC      60
TTGATGCTAA GGATATAGCA GTGAACAAAA CAATCCTTGT GGACTTACAT CATAGTAGGG      120
AAAATAGACA ATAAATAAAT GTATGATAAG TCAGTTGATA ATAAGTGCTA CGAAGTAAAA      180
CAAAGCAGGA ATAAAGTTGG GGAGAAAAGT GGAGGGTGAT TGCTATTTCA GTTGAGATCA      240
TTGGGATGGT CTTTCTCTGAG GAGGGGACAT TTGCATAGAG AAGCAAGGAT GTGAGTTATG      300
TGCTCTGCTGT GTGTAGAACA TTCTGGGAAA GGCAGAGAA GGAACAAGA CTATTCCAGA      360
AAAAGAGGGC ACTCGAG                                     377
```

(2) INFORMATION FOR SEQ ID NO:778:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 304 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:778:

```
GAATTCGGCC TTCATGGCCT AGCACAGCTA GACGGTTCCA GCTCAGGGTC TTCATGAAG      60
TTGCAATCAA AATATTGGCA GGAGAGAAAA ACATATTTTC AGAAGCTGCA GGCATAGGAA      120
GACTTGGCTG GGGTTGAAGG ATCCACTTCC AAGATGGCGC ACTCAGTGGC TCTTGGCTGG      180
AGGCCTCAGT TCCCTGCTGC GTGGAGCTCT CCTCCAGCT GCTTGAGTGG ACTCATGACA      240
TGCAGCTGGC CTCCCTGGA GCAGTCGATC CAACAATGAG CATGGCCATG AACTAGAGCT      300
CGAG                                     304
```

(2) INFORMATION FOR SEQ ID NO:779:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 316 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:779:

```
GAATTCGGCC TTCATGGCCT AGCCAAAACC ACAGAATATA TAATATAGAT CTTGGGGATA      60
CAGCAGAGAA AAAAGACAAA AATCCCTGTT ACAATCCGTT CTAGAATTGA TGTTCCTTTG      120
TTGGTTAATT CAAGTTTGA TTTCAGAAAT CTTACCTCTT GGTGACTGCC TAGAGTGGCA      180
TTGGGCTGGA GGGGAGGAAC TGTTTCATGTT GGAAATGGGG AATGGGCCAA AAATGCAATT      240
GAGTAGGTTG ATTAAGTTGT CTGCTGTCAG AGTGAAGCA GGGGTAGTTT CCCTTTCCGA      300
CCAGAGGCAT CTCGAG                                     316
```

(2) INFORMATION FOR SEQ ID NO:780:

- (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 264 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:780:

GAATTCGGCC TTCATGGCCT ACAGAAGATT TGGACAATTC CATTGATAAA ACAGAAGCTG	60
GAATTAAGGA GCTTCAGAAG AGTATGGAGC GCTGGAAAAA TATGGAAAAA GAACATATGG	120
ATGCTATAAA TCATGATACT AAAGAAGTGG AAAAGATGAC AAATCGGCAA GGCATGCTAT	180
TNAAGAAGAA AGAAGAGTGT ATGAAGAAAA TTCGAGAACT TGGATCACTT CCCCAGGAAG	240
CATTTGAAAA GCACCAGGCT CGAG	264

(2) INFORMATION FOR SEQ ID NO:781:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 580 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:781:

GAATTCGGCC AAAGAGGCCT AGCGATTGGG TCTTTGATAT CTGTAAGCCG TTGAATTAGC	60
CCTGCCCTCT GTTCTTAGTT TAGGAGACCA TAGATGTGCC CTTATTATTG AAAGTGAATTT	120
TATTCAGTTA CTGAAGTTAT CTTACCTGAT ACATAATTTT ACCCATAGAA AATAATATGA	180
AAATAGCAAA ATCACTCAGG TAAGATAGAT GAGTGCCTGC TGTGTTCAAG AGACTGTAA	240
TATGAGGCTC TGGGGCTGCA AAAAATCAAG TTGCTAAGAA ATATGAGGTC AGAGCAGCAG	300
AAGTTCTGAG TAACCACTGA TTAAGTGGACT TGGGGTGATC AGAAGTGACT GTGTGGGAGA	360
GGTGAAATTG AGCAGACTCT GAAGGAACCT CTGGGTTTTG GTAAATAGGG AGCTGGGGAT	420
GAGGATGCCC CAGGTTTTAG AAAGAACACA GGCTGTTGAA TCACACCTGG GTTCAAACCC	480
TGGCTTGCTA CTCCCTAGTT TGTGACCTTG TCAAATTCCT TGATTTCTTT TTTCTTTTTC	540
TTTTTTTAAT TTTGGAGACA ACAGTCTCGC TCTGTCACCC	580

(2) INFORMATION FOR SEQ ID NO:782:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 131 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:782:

GAATTCGGCC AAAGAGGCCT AGAATGGTAG AGTAAAAAGA ACCCTCTGCT GAGTAACCAA	60
GCCTTTAATT TCCTGTTTCT GCTGTAGGGC TTTCACAAAT GCATTTTTC GCGGTTGGT	120
GTGTCCTCGA G	131

(2) INFORMATION FOR SEQ ID NO:783:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 121 base pairs  
 (B) TYPE: nucleic acid

(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:783:

GAATTCGGCC AAAGAGGCCT AGATTGAGGT TGTGGTAGAT TAGGCGTAGG TAGAAGTAGA	60
GGTTAAGGAG GGTGATGGTG GCTATGATGG TCGGCTCGA GGCAGGTCTA GAATTCAATC	120
G	121

(2) INFORMATION FOR SEQ ID NO:784:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 405 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:784:

GAATTCGGCC AAAGAGGCCT AAGCAAGATG AAGCCCAACA TCATCTTTGT ACTTTCCTG	60
CTCCTCATCT TGGAGAAGCA AGCAGCTGTG ATGGGACAAA AAGGTGGATC AAAAGGCCGA	120
TTACCAAGTG AATTTTCCCA ATTCCACAC GGACAAAAGG GCCAGCACTA TTCTGGACAA	180
AAAGGCAAGC AACAACTGA ATCCAAAGGC AGTTTTTCTA TTCAATACAC ATATCATGTA	240
GATGCCAATG ATCATGACCA GACCCGAAAA AGTCAGCAAT ATGATTTGAA TGCCCTACAT	300
AAGACGACAA AATCACAACG ACATCTAGGT GGAAGTCAAC AACTGCTCCA TAATAACAA	360
GAAGGCAGAG ACCATGATAA ATCAAAAGGT CATTTCACA GGGTA	405

(2) INFORMATION FOR SEQ ID NO:785:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 642 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:785:

GAATTCGGCC AAAGAGGCCT ACTACTCACC TCTTGCTCTC TCCCAACCAT AGAAACAGCC	60
ACGACTCCTA CCACAACTT GGGAAACACC ACCACTGAGA CCACCTCCCA CAGTACTCCC	120
AGCTTCACTT CTTCAGCCAT CTACTCCACC GTCAACATAT CCACAACTAC CATCTCCTCA	180
TTTCCCCCTT CCTCAGGTAC CATGGTGACA TTCACAACCA TGAACCCATC CTCTCTGAGT	240
ACAGACATAT CTACCACCAC ACTGAAAAAT ATCACCAGC CTTCTGTGGG CTCTACTGGT	300
TTCCTGACTG CAGCTACAGA CCTCACCTCA ACATTCACTG TTTCCACTTC CTCAGCAATG	360
TCCACAAGTG TCACTCCATC TGCCCCCAGC ATCCAGAATA AAGAAATCTC AACACTTGTG	420
AGTACAACCA CTACCACCAG TCCCCTGAG AGAATGACTC TCACAAGTAC AGAGAATACC	480
CCGACAAGTT ACATCCTGAC CACCAGTCCA GTGACATATT CATTTTCCCC TTCCATGTCT	540
GCCAGCAGTG ACTGGACCAC TGACACAGAG AGCATCTCT CAGCTCCAGC CATCACCAGT	600
AACTCCACA CAACAGCTGA ATCCACCCTG GCAGGTCTAG AA	642

(2) INFORMATION FOR SEQ ID NO:786:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 469 base pairs

(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:786:

GAATTCGGCC	AAAGAGGCCT	ATGGCCTTGG	AAGGGATGAG	CAAACGGAAG	AGAAAGAGAA	60
GTGTCCAGGA	GGGAGAGAAT	CCTGACGACG	GCGTTCGCGG	GAGTCCGCCG	GAAGACTACA	120
GGCTTGGACA	GGTCGCCAGT	AGCTTATTTT	GCGGCGAACA	CCATTCCAGA	GGTGGCACCG	180
GTCGGCTGGC	GTCCCTCTTC	AGTTCTCTGG	AGCCCCAGAT	TCAACCCGTG	TACGTGCCTG	240
TGCCTAAACA	AACCATCAAA	AAAACGAAAC	GGAATGAGGA	GGAAGAAAGT	ACATCCCAGA	300
TTGAAAGACC	ACTTTCGCAA	GAACCTGCCA	AAAAAGTGAA	AGCGAAGAAG	AAACACACTA	360
ACGCAGAAAA	AAAGTTGGCA	GACAGGGAAA	GCGCTCTAGC	GAGTGCTGAT	TTAGAAGAAG	420
AAATTCACCA	GAAACAAGGG	CTTAGCTCGA	GCAGGTCTAG	AATCAATG		469

(2) INFORMATION FOR SEQ ID NO:787:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 501 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:787:

GAATTCGGCC	AAAGAGGCCT	AAGAAAAGAT	ATAAATCAGA	GAAAAAGCAT	GAAGCGTATC	60
ATATTGATT	TAACAGTATT	GCTTGCCATG	TTAGGGCAGG	TGCCTATGC	GCAGAAAACG	120
TGTGTCATCG	CATCGGCAGA	AAATCATGTG	CCTATTCGTG	AAGCACTTAT	TCATACCAAT	180
AACAATCATT	GGGCAAGAAC	AGATTATCGG	GGCTATTGGA	CGATGCGCTA	TCAGTTTGAT	240
TCAGCAACCG	TATCGAAACC	TGGTTTTATG	AAGGCAACTA	TCCGGTACAA	GGAACTGCCG	300
GATACTCTGT	TTCTCTTGCC	GGATGCCAAA	CAGTTAGGCG	AAGTGACAGT	TTGGGGCAAG	360
AATCAGGAAG	GCATCAAAAA	TATGGAAGAG	GATATTCAGG	AGAAGATAAA	CTCTTTGCCA	420
ACTTCATCTG	CTGGCATTGG	TTTGATGCT	TTCGGATGGA	TGGATAAACA	GGGAAAACGT	480
GATAAGAAGC	ATCTGCAACA	G				501

(2) INFORMATION FOR SEQ ID NO:788:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 122 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:788:

TGATGATCGA	TATCCAGAAA	GACACTGCGG	TGGAAGGTGA	GGAGATTGAA	GTCAACTGCA	60
CTGCTATGGC	CAGCAAGCCA	GCCACGACTA	TCAGGTGGTT	CAAAGGGAAC	GCAGAACTCG	120
AG						122

(2) INFORMATION FOR SEQ ID NO:789:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 274 base pairs

(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:789:

GGTGAGCTGA GATCGACCA CTGCACTGCA AGACCCTGTC TCAAAACAAA CAAACAAACA	60
ACAACAACAA CAACAAACCA AACCAACAA AAAACCTGCA TAGCCTACTA GACCAGCATA	120
GAGGGCGAAA ACCATGCTTT TGTCAAATG GTACTGTTTA TTCTGTTTG CTGTCAGCTG	180
GTTTGCCGCT TCTGATAAAG CTAGCCCTTG CTGTGTGCAT GCAGGTTATA GTGCCAGGC	240
TCATATTTCC TCTTCTTGCT GCACCTCACT CGAG	274

(2) INFORMATION FOR SEQ ID NO:790:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 209 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:790:

GAATTCGGCC TTCATGGCCT AGGGAAAGGA GGCGGCAGCC AGGCTGTGTC CCCTGACCGT	60
TGGAGCGTCT GCGACCCCG CATCCCCGCA CCCTCAAGGC ACCTCCAAAG ATGATGATGG	120
GTTGTGGGGA GTCAGAGCTG AAGTCGGCGG ACGGGGAAGA AGCCGCGGCG GTCCCGGGGC	180
CACCCCGGA GCCCAAGTC CCGCAACCG	209

(2) INFORMATION FOR SEQ ID NO:791:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 389 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:791:

GAGAGAATTA AAGAGAACCA CNAAGCTGAA CCTCAAAAAG TTAGCCTGGC GAGGGGAGGA	60
TGATGAGATT TCCCCTGTTG TCACATAAAC AAGGAAGTAA AGGGGGCCCC TTGTGCTCTC	120
AGAACTCCAA GCATGAAACG ATAGCAAAGG GAAAAACAGC TAAGTGTTTC CTGGCTGAAT	180
TTTATTTTGC TTTCAGTTTC TGCCATTTCA GTTCCTGTTA TCGTGCTTTG AGGTGCACTG	240
AACTGCAGCA AACCAGGGG ATCCAAGGCT ACGTTGAAAA GCCTTTGACC ACAGTGCAAG	300
GAGCAGAAGA CATTATGAC GTGATGTCGA CACAGCCCGC ACTCAGGATC CTCCAGGAAA	360
AGAACACAGA GATAACCCCG GAACTCGAG	389

(2) INFORMATION FOR SEQ ID NO:792:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 332 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:792:

```

GTGCTTTGGA TTTTGCATCC AGCTTTTTCT CAACACCCCC GCTGGAATC AGCGGCTCCA      60
TCTCTTCGCC TTCGGAAGCA CCTGCGTCTC TGTCTCTGAT GCCGAGTGAC TTGTCCCCCT      120
TCACATCTCA GTCTTTTTCT CCCTTGGTTG AGACATTTAC ATTGTTTGAC TCTAGTGATC      180
TGCAGTCATC TCAGCTGTCT CTTCACAGT CCACAAATCT TGAGTTTTCG CAGCTCCAGC      240
CAAGTTCCGA GCTGCCTTTA AACACCATCA TGTGCTACC TACCCTTCT GAGGTGTCAC      300
CATGGTCAAG CTTCCCTTCT GATTCTCTCG AG                                     332

```

(2) INFORMATION FOR SEQ ID NO:793:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 262 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:793:

```

GAATTCGGCC TTCATGGCCT ACTGGAATTT CTTTCTGCC CTTTCATATT TTAAGATGGC      60
TGGAATAGCA CAGGGAGTAT ATAGCAGATA TCTTCTGGA AATAATTCAT CTGAGGATAG      120
CTTTTTATTT GCCAATATTG TGCAACCTCT GGCAGAACT GGACTACAAC TCTCCAAACG      180
AACTTTCAGT ACTGTACTAC CACAGATTGA TACTACTGGA CAGTTGTTTG TACAGACTCG      240
GAAAGGTCAG GAAGTTCTCG AG                                     262

```

(2) INFORMATION FOR SEQ ID NO:794:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 304 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:794:

```

GAATTCGGCC TTCATGGCCT ACTATGCCGT CATGATAGAG AAGATGATCC TGAGAGACCT      60
GTGCCGTTTC ATGTTTGTCT ACGTCGTCTT CTTGTTGCGG TTTCCACAG CGGTGGTGAC      120
GCTGATTGAA GACGGGAAGA ATGACTCCCT GCCGTCTGAG TCCACGTCGC ACAGGTGGCG      180
GGGGCCTGCC TGCAGGCCCC CCGATAGCTC CTACAACAGC CTGTACTCCA CCTGCCTGGA      240
CTGTTC AAG TTCACCATCG GCATGGGCGA CCTGGAGTTC ACTGAGAACC ATGAATTCT      300
CGAG                                     304

```

(2) INFORMATION FOR SEQ ID NO:795:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 255 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:795:



```

GCGATTGAAT TCTAGACCTG CCTCCAAGCA GCTGCAGTAT CTCGGAAGAA AAAACGAAGA      60
ATGGGAACCT ATAGCCTGGT TCCTAAGAAA AAGACCAAAG TATTAAAACA GAGGACGGTG      120
ATTGAGATGT TTAAGAGCAT AACTCATTCC ACTGTGGGTT CCAAGGGGGA GAAGGACCTG      180
GGCGCCAGCA GCCTGCACGT GAATGGGGAG AGCCTGGAGA TGGACTCAGA TGAGGACGAC      240
TCAGAGGAGC TCGAG                                     255

```

## (2) INFORMATION FOR SEQ ID NO:796:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 267 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:796:

```

CTAGTCTTCC AACCCCTTCTG GACTTTCTTT GCTCTTGTCT TGTTTTGGGT GTACTGGATC      60
ATGACACTTC TTTTCTTGG CACTACCGGC AGTCCTGTTC AGAATGAGCA AGGCTTTGTG      120
GAGTTCAAAA TTTCTGGGCC TCTGCAGTAC ATGTGGTGGT ACCATGTGGT GGGCCTGATT      180
TGGATCAGTG AATTATTCT AGCATGTCAG CAGATGACAG TGGCAGGAGC TGTGGTAACA      240
TACTATTTTA CTAGGAAGT ACTCGAG                                     267

```

## (2) INFORMATION FOR SEQ ID NO:797:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 185 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:797:

```

GAATTCGGCC TTCATGGCCT AGGGGGAGTT TAGCTGAAAC AAGTTTTACA GAAGCAGAGC      60
TGGCAAATAG TTAAATATT AATTGGTTAC AATAGCAGTT ACAAACAAA TAAACAGTTC      120
CAGGTGCAGG GGCTTAAACT ATCACAAGA GAGAAATGCA GGGGTTTTGC GTGACATTCA      180
CCGAG                                     185

```

## (2) INFORMATION FOR SEQ ID NO:798:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 434 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:798:

```

GGGCGTGTGA CGACTGCTGG GAGAGGAAAG CGAGACATCA TTCCAACCCT CCAGAAGCTA      60
AAGATCCTGG AACTCAAGGG GAAAACTAAC GTAAGTGCGA AAGCGAACAA GCAAACATGT      120
CCTCAACGGG GCAGGCAGGC TGTCGGGGTA CAGAGCTGGG ATCTGGGAAG GAACAGAGAG      180
GGCCGCTCAG GGAGAGGAAG CACAGTGCCA CCGGAGGCAC GCACTCAGCA GGCACCTCGCA      240
GGCTGGGCAG AGGTAGAGAA GCAGCGCTGC ACAGGCAGGC AGCTGACCCA GGGCTCTTAG      300

```

```

AGCCGGGCAG GAGAGCTGGT GTGGGACCTG GGAGGAGGAC AGGAGCCTTC AAAGCAGCAC      360
CGCCTGATTG CAGCCAGGAG GGTAGCATCA AGGAAGATGG AACTGCGGCC AGGCCACATC      420
CAGGGGTGCT CGAG                                                           434

```

## (2) INFORMATION FOR SEQ ID NO:799:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 424 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:799:

```

GAAAAGTCGG ATGCTGGCCT CTGGAAATCA GCCAGATCAA GATATTACAC ATTTCTTCCA      60
ACAGATCCAG GAGCTCAATT TGGAAATGGA AGACCAACAG GAGAACCTAG ATACTCTTGA      120
GCACCTGGTC ACTGAACTGA GCTCTTGTGG CTTTGCCTG GACTTGTGCC AGCATCAGGA      180
CAGGGTACAG AATCTAAGAA AAGACTTCAC AGAGCTACAG AAGACAGTTA AAGAGAGAGA      240
GAAAGATGCA TCATCTTGCC AGGAACAGTT GGATGAATTC CGGAAGCTGG TCAGGACCTT      300
CCAGAAATGG TTGAAAGAAA CTGAAGGGAG TATTCCACCT ACGGAAACTT CTATGAGTGC      360
TAAAGAGTTA GAAAAGCAGA TTGAACACCT GAAGAGTCTA CTAGATGACT GGGCAAGTCT      420
CGAG                                                           424

```

## (2) INFORMATION FOR SEQ ID NO:800:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 300 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:800:

```

GAATTCGGCC TTCATGGCCT AGGGGTGCTG TGTGTTTTTC AGGGCGCCCT GCGTCCGGCA      60
GAGGAGGCGA GCATCCCGCT CAGGTGATGA GGAACCCCTC GCGCACCCAG CGCAGAAGGC      120
TGCTGCCGCC GGACGCCTCC ATTGTTTGAC CACAACAAGG GCCGGATTCT CACCCAGCAG      180
GATCCTAAGG CCTTGTAGT CCTTCAGCCA CTGTGGGCCC TGCCTCTGCC TGTTCTTCTG      240
GAATGTCTTG GGGGTTTGA TCCTGTCACT GTGACCTGCA AATCCAAGAG ACAACTCGAG      300

```

## (2) INFORMATION FOR SEQ ID NO:801:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 306 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:801:

```

GAGAAATCAG TGAAGGATTT GCAACGCTGC ACCGTTTCTC TAACTAGATA TCGCGTCATG      60
ATTAAGGAAG AAGTGGATAG TTCCGTGAAG AAGATCAAAG CTGCCTTTGC TGAATTACAC      120
AACTGCATCA TTGACAAAGA AGTTTCATTA ATGGCAGAAA TGGATAAAGT TAAAGAAGAA      180
GCCATGGAAA TCCTGACTGC TCGTCAGAAG AAAGCAGAAG AACTAAAGAG ACTCACTGAC      240

```

CTTGCCAGTC AGATGGCAGA GATGCAGCTG GCCGAAGTCA GGGCAGAAAT TAAGCACGGT 300  
CTCGAG 306

## (2) INFORMATION FOR SEQ ID NO:802:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 263 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:802:

GCTCGCGGCC GTTCAGAATT ATAAGGCTGT CTGCAGAGAT TTGAAAAATG GCAACAAATG 60  
AAAGTGTGAG CATCTTTAGT TCAGCATCCT TGGCTGTGGA ATATGTAGAT TCACTTTTAC 120  
CTGAGAATCC TCTGCAAGAA CCATTAAAAA ATGCTTGGAA CTATATGTTG AATAATTATA 180  
CAAAGTTCCA GATTGCAACA TGGGGATCCC TTATAGTTCA TGAAGCCCTT TATTTCTTAT 240  
TCTGTTTACC TGGATGTCTC GAG 263

## (2) INFORMATION FOR SEQ ID NO:803:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 276 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:803:

GAATTCGGCC TTCATGGCCT AAATAGTTAG TCACCTTCTG ACCTTCTCCT CTTTCTCAAA 60  
GCCTTCTGTC CCTGGTTTTT GCAAGTGCTG CATTTCGCC GAGAATCCGC GTTGCCTACT 120  
GCTGCCACCT CCTGTTTATT TAGAACTATG CAAAGACTCC GCTTCCGTTT TCCTGAGCTC 180  
CTCGGGCCCC AGAGTCTCTG TTTGATTATT TATTTATTTA TTTATTTATT TGCCAAAAAT 240  
TCTCCTCTTC AACTTATAGA ATGCACCCAA CTCGAG 276

## (2) INFORMATION FOR SEQ ID NO:804:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 580 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:804:

GAATTCGGCC TTCATGCCTA CAGCCATATT AAAACTAAGT AAACCTCGTCC CTGGGAACCTA 60  
CACTTTCAGC TTGACTGTAG TAGACTCTGA TGGAGCTACC AACTCTACTA CTGCAAACCT 120  
GACAGTGAAC AAAGCTGTGG ATTACCCCCC TGTGGCCAAC GCAGGCCCCA ACCAAGTGAT 180  
CACCCCTGCC CAAACTCCA TCACCCTCTT TGGGAACCCAG AGCACTGATG ATCATGGCAT 240  
CACCAGCTAT GAGTGGTCAC TCAGCCCAAG CAGCAAAGGG AAAGTGGTGG AGATGCAGGG 300  
TGTTAGAACA CCAACCTTAC AGCTCTCTGC GATGCAAGAA GGAGACTACA CTTACCAGCT 360  
CACAGTGAAT GACACAATAG GACAGCAGGC CACTGCTCAA GTGACTGTGA TTGTGCAACC 420  
TGAAAACAAT AAGCCTCCTC AGGCAGATGC AGGCCAGAT AAAGAGCTGA CCCTTCTGT 480

GGATAGCACA ACCCTGGATG GCAGCAAGAG CTCAGATGAT CAGAAAATTA TCTCATATCT 540  
CTGGGAAAAA ACACAGGGAC CTGATGGGGT GCAGCTCGAG 580

(2) INFORMATION FOR SEQ ID NO:805:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 323 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:805:

CAAATTGATT TCGGCACAGT TCTGGGAGCT GGGACATTCA AGGTCACCAC GTTGCCACCT 60  
GTGAAGGCCT TCTGCTGCAT CCTCATGTTG GGAAGATCA GAAGTGAGAA CACATGCTGG 120  
CCAGTCCTTT CACAGCAGCA TCAATCCGTG CATGGGGCAG GGCCCTCGGC CTGAGCGCCT 180  
CCCCAGGCC CTAATCCCA GCACTGCCCT GCTGGGGATG GAATTTCCAA CATGAATCTG 240  
GGGGATGCTT TCGGACCACA GCCGGGGAGC CTGCCCTGGC TTCCAGCTGC TGGTGGCCCA 300  
GGGGCTCCCT GGCTTGCCCTC GAG 323

(2) INFORMATION FOR SEQ ID NO:806:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 304 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:806:

GCGATTGAAT TCTAGACCTG CCATTCTCGC TCTGCCGACG TTGACTCTCT CTCTGAATCC 60  
AGTCCCAACT CCAGCCCTGG CCCCTGTCCT GAGAAGGCC CACCACCCCA GAAGCCGAGC 120  
CATCTCCAG GGGGCCCTCA TCGCCATCGT CTGCAACGGT CTCGTGGGCT TCTTGCTGCT 180  
GCTGCTCTGG GTCATCCTCT GCTGGGCCTG CCATTCTCGC TCTGCCGACG TTGACTCTCT 240  
CTCTGAATCC AGTCCCAACT CCAGCCCTGG CCCCTGTCCT GAGAAGGCC CACCACCACT 300  
CGAG 304

(2) INFORMATION FOR SEQ ID NO:807:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 556 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:807:

GAATTCGGCC TTCATGGCCT AGATATGAGA AATGAGTGTT GGACGTCGAA GAATAAAGTT 60  
GTTGGGTATC CTGATGATGG CAAATGTCTT CATTTATTTT ATTATGGAAG TCTCCAAAAG 120  
CAGTAGCCAA GAAAAAATG GAAAAGGGGA AGTAATAATA CCCAAAGAGA AGTTCTGGAA 180  
GATATCTACC CCTCCCGAGG CATACTGGAA CCGAGAGCAA GAGAAGCTGA ACCGGCAGTA 240  
CAACCCCATC CTGAGCATGC TGACCAACCA GACGGGGGAG GCGGGCAGGC TCTCCAATAT 300  
AAGCCATCTG AACTACTGCG AACCTGACCT GAGGGTCACG TCGGTGGTTA CGGGTTTAA 360

CAACTTGCCG	GACAGATTTA	AAGACTTTCT	GCTGTATTG	AGATGCCGCA	ATTATTCAC	420
GCTTATAGAT	CAGCCGGATA	AGTGTGCAAA	GAAACCTTTC	TTGTTGCTGG	CGATTAAGTC	480
CCTCACTCCA	CATTTTGCCA	GAAGGCAAGC	AATCCGGGAA	TCCTGGGGCC	AAGAAAGCAA	540
CGCAGGGAAC	CTCGAG					556

## (2) INFORMATION FOR SEQ ID NO:808:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 359 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:808:

GGAAACTTCT	AAACTATTTT	GCTCGCAACT	TTTACAACAT	GAGAATGTTA	GCCTTATTTG	60
TCGCATTTGC	TATCAATTTT	ATCTTGCTCT	TTTATAAGGT	CTCCACTTCT	TCTGTGGTTG	120
AAGGAAAGGA	GCTCCCCACG	AGAAGTTCAA	GTGAAATGC	CAAAGTGACA	AGCCTGGACA	180
GCAGCTCCCA	TAGAATCATC	GCAGTTCAC	ATGTACTAGA	GGAGAGCAGC	GGCTACATGG	240
AGCCACGTT	GCGTATCTTA	GCTATTCTGC	ACACGGTCAT	TTCTTTCTTC	TGCATCATTG	300
GATACTACTG	CTTGAAAGTC	CCATTGGTTA	TTTTTAAGCG	AGAAAAGGAA	GTGCTCGAG	359

## (2) INFORMATION FOR SEQ ID NO:809:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 299 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:809:

GAGANACGAC	AATGTCCAGG	AAACAGAACC	AGAAGGATTC	ATCAGGATTC	ATTTTGGATT	60
TGCAGTCCAA	TACCGTACTG	GCCCAGGGAG	GAGCTTTTGA	GAACATGAAA	GAGAAGATAA	120
ATGCGGTACG	TGCAATAGTT	CCTAATAAGA	GCAACAATGA	AATTATCCTG	GTTTTGCAGC	180
ACTTTGATAA	CTGTGTGGAC	AAAACAGTAC	AAGCATTTCAT	GGAAGGTAGT	GCCAGTGAAG	240
TACTCAAAGA	ATGGACAGTA	ACAGNCAAGA	AAAAGAACAA	AAAGAAGAAG	AAACTCGAG	299

## (2) INFORMATION FOR SEQ ID NO:810:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 413 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:810:

GAATTCGGCC	TTTCATGGCCT	AGTAGCTGTT	CCAGTACAAT	TCAATGTTAT	CCAGGTTGGG	60
TGCATGTGTA	ATGATATTTT	TGTACTTTTG	TATCAACTCA	GAATTTCCAG	AGAGCTCTTC	120
CTGGCTGAAA	AGATGTCCAA	GGATCATCTC	CGGAATGGAA	GAGGTGAGGC	CTGTTAGCTT	180
GTGGGCTGCC	CAATCCATCC	AACCCTTGGC	ATTGGGATCA	ATGTTGATGA	GGACAAGACC	240
TTCAACAGTG	TCCGGGTGGT	TAAGAGCATA	TCTCGCCAGG	ATGTAGGCTC	CAGCTCCAAC	300

ACCAACTCCA ATTATTGTAG AGAAATTTAG GTACTGCAGG ACGCAAGGGA TCATGTCTGC 360  
AAGCTGGTCC AGAGATGGGT ACTGATATCC CAAAGGGAAC ACAGGGGCTC GAG 413

## (2) INFORMATION FOR SEQ ID NO:811:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 324 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:811:

TTGGTATTGT CTCTGTACTA GTCTTTCCAA ATTCTGCTGT GAGCTTTTGT CTTAGACTGT 60  
AAGCCTTAGA GTCATCATC ACAGTAATCC TAAAGACAGA T3TTTCTGTT CTATTTGATA 120  
AGGCCTTTT GTGGGTGTG CCGACTGTCA GTTTCATGTT TGTTTGTGTT TTTTGGAACT 180  
GCAGTTACAT CCAGGAGACC TGTGGTGAGC ATAATGGGCT GTAGTTGTG CAGTTGTCAG 240  
TATAGCTTGT TAGGGAGCTC TTCCTGGGCA GAGTCTTGCA CAGCAGAGCC CAGTGCTGAG 300  
CTGAGTTCTT GGCACCATCT CGAG 324

## (2) INFORMATION FOR SEQ ID NO:812:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 352 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:812:

ACATTTCTTT GTAAGTTNNN AAAAGCCTAT GAGGGTTTTT TCCACGATTC CGTTCACAGT 60  
TTGGCTTTTG TTGTTGTTGT GGCTGTTCTT GGCCCCCTG GGCCCTGCAG TGGAGTGGGG 120  
GGGTGCACCT GGGAGCCTCG AGCTGAGGCC CAGCCCCCTCC TGCCCTGCAT TTTCTGCCA 180  
AGCAGCACCT GAGACTCTGA AGCCGATGCC TATACAGGCA GAAACCTGCC AATTCCAGCT 240  
TGAACGACTG GAGGGTCCTG AGGATGGGGG TCCCTGGGGT GCCATCATGG GCAGGGTGCA 300  
TCTGTTTGGG TATGCTGCCC CCCAGCTGGC GGGGCACCGG GGACAGCTCG AG 352

## (2) INFORMATION FOR SEQ ID NO:813:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 329 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:813:

GAATTCGGCC TTCATGGCCT AGGGAAGGG AANGTGGGGA GGGTCCGAGG GGAAGGGGAC 60  
CCCAGCTTCC CTGTGCCCGC TCACCCCACT CCACCAGTCC CCGGTCGCCA GCCGGAGTCT 120  
CCTCTCTACC GCCACTGTCA CACCGTAGCC CANATGGATA NCACNGTTGT CAGACAAGAT 180  
TCCTTCAGAT TCCGAGTTGC CTACCGGTTG TTTTCGTTGT TGTTGTTGTT GTNTTTNTTT 240  
TTNTTTTNNN TNCGGAAGAC AGCAATAACC ACAGTACATA TTAAGTGTAGT TCTCNATAGT 300  
TNCACATACA TTNATACCAT AACCTCGAG 329

## (2) INFORMATION FOR SEQ ID NO:814:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 272 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:814:

```

GAATTCGGCC TTCATGGCCT ATCCATTTC AAATCCACCA AGGTCCAGTC GACAGACATT      60
TCCAAAAAGA ATCCTGTTCT AGGACCACTT GCGCTGAGAG CACACCCGGG GGTCAAAGGG      120
CAGCCACCGG GGGTCAAAGG GCAGCCATCA GGTA TCCCC AGGGAAGGGC TTGCGGCCAC      180
CAGTCACTGC AACCCCGCCT CACCTCCGAT GCCTGCTGTG CCCAGGGTGG TCCCGCTCAT      240
AGCGACGGCC TGNGCGTNCA TANGACCTCG AG                                     272

```

## (2) INFORMATION FOR SEQ ID NO:815:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 584 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:815:

```

GATTGAATTC AATGTTAAGC ACCAATGCTG GATTTGGTGG TGGACTGAAC ACCAGTGCTG      60
GCTTTGGTGG TGGCTAGGC ACCAGTGCTG GCTTCAGTGG TGGCCTAAGC ACAAGTTCTG      120
GCTTTGATGG TGGGCTAGGT ACCAGCGCTG GCTTCGGTGG AGGACCAGGC ACCAGCACTG      180
GTTTTGGTGG TGGACTGGGC ACCAGTGCTG GCTTCAGTGG CGGACTGGGC ACCAGTGCTG      240
GCTTTGGTGG TGGACTGGTC ACTAGTGATG GCTTTGGTGG TGGACTGGGC ACCAATGCTA      300
GTTTCGGCAG CACACTTGGC ACCAGTGCTG GCTTTAGTGG TGGCCTCAGC ACCAGCGATG      360
GCTTTGGCAG TAGGCCTAAT GCCAGCTTCG ACAGAGGACT GAGTACCATC ATTGGCTTTG      420
GCAGTGGTTC CAACACCAGC ACTGGCTTTA CTGGCGAACC CAGCACCAGC ACGGGCTTCA      480
GTAGTGGACC CAGTTCTATT GTTGGCTTCA GCGGTGGACC AAGCACTGGT GTTGGCTTCT      540
GCAGTGGACC AAGCACCAGT GGCTTCAGCG GCGGACCGCT CGAG                                     584

```

## (2) INFORMATION FOR SEQ ID NO:816:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 481 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:816:

```

GAGAATGTCC AGCAAGGAAG TGAAGACTGC TCTAAAAAGT GCTAGAGATG CAATCAGAAA      60
CAAAGAATAC AAAGAAGCTT TGAAACACTG TAAGACAGTG TTAAAGCAAG AGAAAAATAA      120
CTATAATGCC TGGGTTTTTA TTGGCGTTGC TGCAGCTGAA CTAGAACAAC CTGATCAGGC      180
CCAGAGTGCC TATAAAAAAG CTGCTGAATT AGAGCCAGAC CAATTACTAG CTTGGCAGGG      240
GTTAGCAAAC TTGTATGAGA AATATAATCA CATAAATGCT AAGGATGACT TGCCTGGTGT      300
TTACCAAAAG CTCCTGGATC TTTATGAGAG TGTGACAAG CAGAAGTGGT GTGATGTCTG      360

```

CAAGAACTT GTGGATCTAT ATTACCAAGA AAAGAAACAC CTAGAGGTGG CTCGAACATG	420
GCACAAGTTG ATAAAAACAC GGCAGGAACA AGGTGCAGAA AATGAAGAGC TTCATCTCGA	480
G	481

## (2) INFORMATION FOR SEQ ID NO:817:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 209 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:817:

GAATTCGGCC TTCATGGCCT AGGGGGAGTG GTGGGTATTG CTAAGTTATC AGTTATTTAA	60
CCTTATGGAG TTTTATTAA CCGTTTTTGT TTGACATGTT TTATATATAT GTAATTTTAT	120
TTATTCTTCA CAAAATCCCT GTGAGGGGGG TGGTACTATT GTCCCCATT AAAGATGAGA	180
ACACTGAGGC ATGTCTAGAA TTCATCGAG	209

## (2) INFORMATION FOR SEQ ID NO:818:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 220 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:818:

GGCTCTGTGG AATTCCATGG CATCTTCCCC GCCCCCCCCA ACCCCCCCTT TCCCCCTTC	60
TTTTTTTTT TTTCTTTCT TTTCTCCCCT CCCCCCTT CACCATTTC CCTCGGAGGC	120
GCTTTCCCG GGCAGGGGCA GAGCCGGTCT CACCCCCGC CTCTCCCCG CCCCCCGCG	180
CCTATGGCGA GAGGGAGCCC CCTCCAACC CGGGCTCGAG	220

## (2) INFORMATION FOR SEQ ID NO:819:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 346 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:819:

GAATTCGGCC TTCATGGCCT ACACATTCTT TTAGTCAGAA ACATTAAAT AGTAGAGTAA	60
GTTGGCTTGA AGTGAATTT TGTGTGAAAT CTTTCTCTG CCCTAGCCTA GTTGTCCAT	120
GCACATTTGC ACACAGGAAG AACATTTTGA GACCTGCCAG AATATGCAAT GACAGGGTAA	180
AAAATGCCGG AGGTTGACTG TGTTCATAGA CATTGTGCTA AACACTCAAC ACTCCTGATC	240
ACACTGAATG CTTTGTACAG TCCTGTGAAT TGAGGGCTAT TATTATCCCC ATTTTATATA	300
TGAGCGAGCA GAGGCCAGA CAGATTAACA AAGGTGCTCC CTCGAG	346

## (2) INFORMATION FOR SEQ ID NO:820:



- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 355 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:820:

```
GCTTATACAG TGTCCGATAG ACACCAGGAA GCNACTAGCA GAGAATTTGG TAGTCATAGG      60
TGCGCACTTCT ATGTTGCCAG GATTTCTCCA CAGATTGCTT GCAGAAATAA GGTATTTGGT      120
AGAAAAACCA AAATATAAAA AAGCACTTGG CACTAAGACA TTTCGAATTC ATACTCCACC      180
TGCAAAAGCT AATTGTGTGG CCTGGTTGGG AGGGGCTATT TTTGGAGCAT TACAAGATAT      240
ACTTGGGAGC CGTTCTGTTT CAAAGGAATA TTATAATCAG ACGGGCCGTA TACCTGATTG      300
GTGTTCTCTC AATAACCCAC CTTTGGAAT GATGTTTGAT GTCGGGGAAC TCGAG          355
```

(2) INFORMATION FOR SEQ ID NO:821:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 273 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:821:

```
GCTCGAGGGC GAAGGGGAGC AATGGCATTT GCGTTGGCCA TCCGTGACAC GGCATCCTAT      60
GCTCGCCAGA TGATGTTTAC GACCACCCTT CTCATTGTGT TCTTCACTGT CTGGATCATT      120
GGAGGAGGCA CGACACCCAT GTTGTCATGG CTTAACATCA GAGTTGGCGT CGAGGAGCCC      180
TCCGAAGAGG ACCAGAATGA ACACCACTGG CAGTACTTCA GAGTTGGTGT TGACCCCGAT      240
CAAGACCCAC CACCAACAA CGACAGACTC GAG          273
```

(2) INFORMATION FOR SEQ ID NO:822:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 286 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:822:

```
GAGATAAACA AAATTGATTG CCCCATTCCTC TCACTTCCCC ATCTTGTCCTT CCTAGACCCC      60
ACAGAGTTAA AACTTGGGAT TCCCCTGGCC CCCCCAGAAC ACTTGATATAT TGTTGTTTGT      120
AGGTCGTGTC CGCAGTAACA GACACAGTAT TTAATTGCAC ATACAGATGT TTGCTGGGTA      180
TATTCAGTGT AAATTTTATT TAATCTGTTT TTTTGTTTGT TTGGGGGTTA TTTGGGGGGA      240
GGTTGGTTTT GTTTTAAAT ATAAAAAAA AAATCTGTCA CTCGAG          286
```

(2) INFORMATION FOR SEQ ID NO:823:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 297 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:823:

GGTCTGGAGG	AGGCCCGGAG	GGGCTGTGGG	TGGACCACTG	CAGTAATCTG	GGTGAAAGAT	60
GATGATAGGC	TAGACTAATA	TGGTACCAGA	GACAAAGAAG	AGGGACTTGA	GAGTTATTTA	120
GGAGGAAAAA	AACAAAACAA	AACAAAAATC	AACCAGACTT	ACGTTTGTAA	ATAGGACAAG	180
TGAGGAAAAG	GAGGGTTTCG	AGAATAGCTT	ATAGTTTTCG	AGAAGATGAG	GTTGGACAAG	240
ATGCCACTGC	TTTTCTTAGC	ACTCTTCCTT	CCCCTAAACC	ATCCCGTAGT	GCTCGAG	297

(2) INFORMATION FOR SEQ ID NO:824:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 268 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:824:

GAATTCGGCC	TTCATGGCCT	ACCCTCATT	CCCCAAGTGC	CTCCTAATGG	ATCTGTCCTT	60
ATTCTTCCTT	GTTCTGTCTC	CCTCATGCCC	TGGAGCTCCT	CTCTTTGGGA	CCTTCCTCTC	120
CCAAGTCACC	ACCTCTCTC	CCCTTCTACC	ACTCAGCCAT	TCCCAGTTT	CCACAGTTCC	180
TCAACATTA	CCCCACTCCC	CACTCCCCAG	TTTCTCCCC	CTCCCCATTT	GTCCCCCTCA	240
CCTGGGGGTC	CCCGAAGTAG	ATCTGCAG				268

(2) INFORMATION FOR SEQ ID NO:825:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 411 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:825:

GAATTCGGCC	AAAGAGGCCT	AGATGTGAGC	TGGGGAAGGG	AGGGTGGCCA	GTAATGGGTT	60
TGTTATCAAG	CAGGTTTGTT	ATCACTGTGG	GTGACAAGCC	CCTTCCCATT	TGGGGCCTCT	120
GGGATCCAGT	GCAGAACATA	TCCCTCGCAG	GAGATGAGGA	ACTGGGGTGT	TCACAGAGTA	180
ATTCCCTCCC	TCACTAGTTG	AGGGCTGCCT	CTGGGGGTGG	CTGAACTACC	TCATGCAGCC	240
AGAGAAAGTC	CTCAGGCAAT	GAAATACAGA	CACTGGCCAG	CCAGCACTGA	GGTGGCGAGA	300
CCTTACTGGC	TGGTCCCCAG	AGTGTCTGCA	GCATTGTGTG	AGATCTTAAA	CTGGCTAGAA	360
GGACGGTAAC	AGCAGCACCT	GTTTCATAGG	ACGTGAAGAT	AGACGAGACA	G	411

(2) INFORMATION FOR SEQ ID NO:826:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 353 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:826:

GAATTCGGCC	AAAGAGGCCT	ACTAAAACCA	TAATTGCTTG	TTTTGCCTG	TATCTGTCTT	60
TTCACGAACA	TTTGTAGTTT	AGCTCTGTCT	TACATTCCCA	TCCCTAAAGA	TCATCAGGAC	120
TTTTGTTTTC	GTGACAATGC	TGGGACCAGA	TTGGCCTTCA	TCATCTCATA	ACACCCTTAT	180
TTCCTATGGA	AAAGTAAAAT	TGAATTATTG	CAGATATGAT	GACTTTAGGA	TATCCTTTTC	240
CCTCTTGAC	ATCCTTCATT	GTATTGTGT	TTCCCTTTG	GTCTCCAACG	TCCCCACCAC	300
CCCCAATCCC	TCCACGACTT	TTAAGCCCTT	GGAAGCCAAC	TTGATTAGTC	AGG	353

## (2) INFORMATION FOR SEQ ID NO:827:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 428 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:827:

GAATTCGGCC	AAAGAGGCCT	ACCGTGAGTT	CCCAGGGTGG	CCGGGAGGGG	GAGCTGCGGG	60
GTTACAGCG	GCTCCTCTCA	ACGTTCTGG	CTCCGCTCCC	GACTTCTCAG	CCCTGCCTGG	120
AGGGGCTCAG	CCACTGCTTT	TAGCTGTCTG	CTGGCTTTCC	ACCCTTCCAG	CCTGAACCTT	180
GACTTCCCA	TGAGGCCTTC	CTGTGGCGGG	GACACTCCAG	GTCGCTGCAC	CCCTTCTCTC	240
CTGAATTTCT	GTAACGACAT	CTAACTTTTA	TTTAATTAAT	TTATTTATTT	AGAGATGGAG	300
TTTCTCTCTT	GTTGCCCCGG	CTGGAGTGCA	ATGGCACCAT	CTTGGCTCAC	TGCAACCTCC	360
GCCTCCCAGG	TTCAAGTGAT	TCTCCTGCCT	CGGTCTCCTG	AGTGGCTGGG	ATTGCAGGCA	420
CCCATCTG						428

## (2) INFORMATION FOR SEQ ID NO:828:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 144 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:828:

GAATTCGGCC	AAAGAGGCCT	AAGCGGTATT	TCAGCCACAG	AGTTGGTGTT	GGGTTTACTT	60
ATCTATTTTG	AATTTAAAAG	GCTTATAAAT	AAAGCAGTGA	CACTGCTTAC	TGGGAAATGC	120
TGTACCAAAA	AATGTTATCT	TGCT				144

## (2) INFORMATION FOR SEQ ID NO:829:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 95 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:829:

GAATTCGGCC AAAGAGGCCT AGCGGACTAG GAGTCAATAA AGTGATTGGC TTAGTGGGCG	60
AAATGTTATG CTTTGTGTGTT TGGATATATC TGGAG	95

## (2) INFORMATION FOR SEQ ID NO:830:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 610 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:830:

GAATTCGGCC AAAGAGGCCT AGTGGCTACC TAAATTGAGT ATCTGGCAAG AGTAAGATTA	60
AGCAGTAATT TGTTCCAAAG AAGAATCTTC TACCAAGGAG CAACTTTAAA GAATGAAATT	120
AACTTTCTTC TTGGGCCTGT TGGCTCTTAT TTCATGTTTC ACACCCAGTG AGAGTCAAAG	180
ATTCTCCAGA AGACCATATC TACCTGGCCA GCTGCCACCA CCTCCACTCT ACAGGCCAAG	240
ATGGGTTCCT CCAAGTCCCC CACCTCCCTA TGAATCAAGA CTTAATTCAC CACTTTCTCT	300
TCCCTTTGTC CCAGGGCGAG TTCCACCATC TTCTTTCTCT CGATTTAGCC AAGCAGTCAT	360
TCTATCTCAA CTCTTTCCAT TGGAACTCTAT TAGACAACCT CGACTCTTTC CGGGTTATCC	420
AAACCTACAT TTCCCACTAA GACCTTACTA TGTAGGACCT ATTAGGATAT TAAAACCCCC	480
ATTTCTCTCT ATTCCTTTTT TTCTTGCTAT TTACCTTCCT ATCTCTAACC CTGAGCCCCA	540
AATAAACATC ACCACCGCAG ATACAACAAT CACCACAAAT CCCCCACCA CTGCAACAGC	600
AACCACCAGC	610

## (2) INFORMATION FOR SEQ ID NO:831:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 564 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:831:

GAATTCGGCC AAAGAGGCCT AGGAAGAAAC AAGAACAAGA AAAAAGATTA TATTGATTTT	60
AAAATCATGC AAAAAGTGCA ACTCTGTGTT TATATTTACC TGTTTATGCT GATTGTTGCT	120
GGTCCAGTGG ATCTAAATGA GAACAGTGAG CAAAAAGAAA ATGTGGAAAA AGAGGGGCTG	180
TGTAATGCAT GACTTTGGAG ACAAACACT AAATCTTCAA GAATAGAAGC CATTAGATA	240
CAAATCCTCA GTAAACTTCG TCTGGAAACA GCTCCTAACA TCAGCAAAGA TGTTATAAGA	300
CAACTTTTAC CCAAAGCTCC TCCACTCCGG GAACTGATTG ATCAGTATGA TGTCCAGAGG	360
GATGACAGCA GCGATGGCTC TTTGGAAGAT GACGATTATC ACGCTACAAC GGAAACAATC	420
ATTACCATGC CTACAGAGTC TGATTTTCTA ATGCAAGTGG ATGGAAAACC CAAATGTTGC	480
TTCTTTAAAT TTAGCTCTAA AATACAATAC AATAAAGTAG TAAAGGCCCA ACTATGGATA	540
TATTTGAGAC CCGCCGAGCT CGAG	564

## (2) INFORMATION FOR SEQ ID NO:832:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 424 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:832:

GAATTCGGCC	AAAGAGGCCT	ANTCTGTTGA	GATTTCCCCC	TTTAGTTTCC	AACCTTCTCC	60
CCACCTACTC	ATTATCCAT	CCCTCCCACC	AACTCATTTA	TCCATCCCAC	CCACTCATT	120
ATCCATCCAT	CCCACCCACT	CATTTATCTG	TCCATCCCAT	CCACTCATT	ATCCATCTAT	180
CCCACCCACT	CATTTATCTG	TCCAACCCAT	CCACTCACCC	ACCTACTCAT	TTATCCATCC	240
CATTCGCTTA	CCCATCCATC	TATCCCACCT	AACAATAGAT	CCAACCATTC	CCTCACCTAT	300
GCATCTGTCT	GTTCAGCTGT	TCATCCATTC	ATTGATCTTT	CCATCCATTC	ATCCACTCAT	360
TCACACACCT	ACCTACCTAC	CCACCCGCTC	ATTTATTAC	CCACCTACCC	TCTCATCCAT	420
CCAG						424

## (2) INFORMATION FOR SEQ ID NO:833:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 383 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:833:

GAATTCGCCA	AAGAGGNCTA	GTCTACATCA	GCTAACTTTC	CTACAAGATT	ATCAAATTTT	60
ACACAGTATT	TTTCTGTATT	TAATGACTGC	CATGGTCTGC	AAAATTATGT	GATTAGACAA	120
TGAATGACGC	TTAAAGAATG	ATGACCTATT	TTCTAAAGTA	CACTCAAAAT	ATTAAACTTT	180
AGAGACAAAG	CAAAATCTAT	CATAAAGTTG	GCTTCTGTTG	ATAGAAACAG	AGAGGTAGGT	240
TAATAATCAC	TGTCCTAAGA	TAAGCNAGAA	TGCTTAGAAA	TAAAAGTTGA	GACCCTGCTT	300
CAAAAAGAG	AAGTTGAACC	TTCCAGCCCT	GAGTTTCTAA	TATTACATGA	AAATTATGAA	360
AATGAGCATT	AAGCCAGTCG	CAG				383

## (2) INFORMATION FOR SEQ ID NO:834:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 464 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:834:

GAATTCGGCC	AAAGAGGCCT	ACTACGTAGT	TGGAGCTNTT	TCTTCCCCCA	GCAAAGCCAG	60
AGAGCTTTGT	CCCCGGCCTC	CTGGACACAT	AGGCCATTAT	CCTGTATTCC	TTTGGCTTGG	120
CATCTTTTAG	CTCAGGAAGG	TAGAAGAGAT	CTGTGCCCCAT	GGGTCTCCTT	GCTTCAATCC	180
CTTCTTGTTT	CAGTGACATA	TGTATTGTTT	ATCTGGGTTA	GGGATGGGGG	ACAGATAATA	240
GAACGAGCAA	AGTAACCTAT	ACAGGCCAGC	ATGGAACAGC	ATCTCCCCTG	GGCTTGCTCC	300
TGGCTTGTTA	CGCTATAAGA	CAGAGCAGGC	CACATGTGGC	CATCTGCTCC	CCATTCTTGA	360
AAGCTGCTGG	GGCCTCCTTG	CAGGCTTCTG	GATCTCTGGT	CAGAGTGAAC	TCTTGCTTCC	420
TGTATTCAGG	CAGCTCAGAG	CAGAAAGTAA	GGGGCTTACT	CGAG		464

## (2) INFORMATION FOR SEQ ID NO:835:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 309 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:835:

GAATTCGGCC	AAAGAGGCCT	ACTGGGAGTT	CGGAGTGATT	GTTTCCTGTT	ACAGGCCAAA	60
AAATTTGTTT	GGTTACTTAG	TGGTAGCATT	TTGAGAGGAA	AGTTTACAGA	AAACTAGGGT	120
TATTTTGTTG	TTATGCTTGA	ATTGTCTTTA	TTGTTTCCAA	GGCATCTTTT	TTTTTTCCTT	180
CTAGTTATCA	AGATGTTAGG	TTCTGTGCCC	TTGTGGGCCT	TCCCTCTGCC	CAAAAAAAGC	240
ATGGATGAGC	AGAGTAATAT	CATTAAAATG	GCAGTCTTTG	TTAGTTTTTC	TAGAAAAGAT	300
GGTCTCGAG						309

(2) INFORMATION FOR SEQ ID NO:836:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 333 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:836:

GAATTCGGCC	AAAGAGGCCT	AAGGCAGGTT	TTTTTTTCTA	TGCTTATTGA	TTTAGCCTAT	60
CTATTATATA	CAGTATAATT	CAGAATATAA	ATATGGAAAC	AGTTTCATAA	GGAAGTTTAT	120
CTTTAACTCA	GACATTATAT	CATTAATACT	TCAAATCTCA	TTATACCATT	ATGACCTGAA	180
TGCTACATTT	TTCTTCCTGT	ATGGAGAGCT	TAGGGAAAAA	TTGTGGCCTG	ATGTCCTCAT	240
CCATTCACCT	ATCATAGAGT	ACATAATGAT	CTCAAATATC	CAAAAATGGT	TATATTCAGC	300
TGCATATTTT	TAAGAAAACA	GGCAGGACTC	GAG			333

(2) INFORMATION FOR SEQ ID NO:837:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 706 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:837:

GAATTCGGCC	AAAGAGGCCT	AATTGATTTT	CCATGAGTCT	TGTAATCTTT	GCTCTGCTGA	60
TTGCGTTTGC	CGTCTCTAGA	CCATCTCGCT	TCGAACAAAT	CGCAAAAGAG	GTGAATTCCA	120
GAAGAACGAC	CTGGATTGCA	GAAGAATCGG	CTCCGTTCCG	TGACTATGCT	CGTTTGATCG	180
GTACCCTTCC	AAATACGGTC	CCTCTTCCGA	GTAAGACTGT	CGATGTCGTG	AAGAACCCTC	240
CTGAGAGTTT	TAACGCATTG	GAAAAGTGCC	CGGAATGCAA	GTCCATCACG	GAAATCCCGT	300
ATCAAGGAGA	ATGTGCTTCA	TGTTGGGCAC	TGGGGAGTGG	CGGAGGTGGC	CACGGATCGT	360
CTTTGCATTT	CTTCCAACGG	AAAGGATCAA	TCCCGTCTCT	CTGCCGAGGA	TCTGTTGGGA	420
TGCTGTGACT	CTTGTGGAAT	GAAATGCAAG	GGAGGGTACA	CGGGGAATGG	CCTGGGAGTA	480
TGTACGTCAG	GTGGGAATTG	TGACGGGTGG	AGCGAATGGA	AACAAGGAAT	GGTGTAAATGA	540
GTACGCGTTC	CCGAAGTGCA	GTCACGGTAT	TCAGGGCTCC	TATCCTGAAT	GCTCTTCCAT	600
CCCCCCTGAA	GATCCGGAGT	GTTCAACGAC	TTGCATAAAG	GGGTATCCCA	TCCCATATGA	660
TCAGGACCGT	CACAAAATGA	AGTCAGCCTT	CCAGCTGGCA	CTCGAG		706

(2) INFORMATION FOR SEQ ID NO:838:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 480 base pairs

- (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:838:

```
GAATTCGGCC AAAGAGGCCT ATAAAAGTCT TATTTTAC TTTGTCCACT GGAATACATC      60
ATCGTTGGCC TATCATTCCA AACTCCCTAC AGTGTTGGCTT CAGCTTATCT CTCTCTGTTT      120
TTTACAGGAA TCCTAAACTC TAACCCAGGG ACCCTCAACA TCTGTGCTGG GTGGACTGTG      180
GCCACATTTT CAGCTGGCCA GTGTAAGGGT TTTAGAGGCC CTTACATGAG AAGAAATACA      240
ATTTTAAAGT CTCTGAGATG ATGTGCTTCT TACATTTTGT GAATTAAAT GCCTCTTTAC      300
TTATAAAATG CTGGTAGTAA TAGATGGTCA TTATCTCACT GTCATTTGTG AAAGAAAAAA      360
CGATTGTAAT AGAATTCTTG CTATTTTCTT TCTCTAAGGG AGGTAAGTTT TCTCCCTAAG      420
CAAACCTTTAT GGAATGCACA ATGCTTGGCT TTCACCTTCT TTTATTCTCA CTACCACCGG      480
```

(2) INFORMATION FOR SEQ ID NO:839:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 589 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:839:

```
GAATTCGGCC AAAGAGGCCT AGAATTAAGG TGTATTATGA GCAGTTGAAG ATATATAGGA      60
AATTTTTTCC CAAACCACTA TCTCTGCTCG TTCTATTCAT TCAGTCTGTT TATGTTATTC      120
CTTCATTCAT TCATTTTATA GAACAGTGGG GTGCCTACTG TATGCATCTA TTGTTCTGGG      180
TCCTGGGGAA AGAAAACAAA GTTCTGCTT TCATGGAAGT TACATTATAT TGGCGGAGAC      240
AGTAACAGAC AAACAAATGT AGCCTGTGTA CATGTGTGTTAC ATGAAAAGCA GGGTAGGGGG      300
CTGGGAGAGA GTAGTAGGGA GTGCTATTTT CGAGGTGGTT GTCAGGAAAG GCCTCACTGA      360
GGAGGTGGCA TTTTGAGTAG ACCTGAGCGC AGCGGGGGCG TAAGCCCAGG CAGCATGTGG      420
AGGAAGAGTG TTCTTGGTGA AAGGAACAAG GATAGAGGCC CGAAGCTAGA GAGCTCAGCA      480
TGATCAAGGA ACAGCAAGCC CCGTGTGGCT GGAATGGAGT GAGCAAAGGA ATGAGCAGTA      540
GAAGGTGAGT GAGTTGGGAG GTCACCAGAG ACCATGGCAA AGACTCGAG      589
```

(2) INFORMATION FOR SEQ ID NO:840:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 430 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:840:

```
GAATTCGGCC AAAGAGGCCT AGGGACTAAC TGCAACGGAG AGACTCAAGA TGATTCCCTT      60
TTTACCCATG TTTTCTCTAC TATTGCTGCT TATTGTTAAC CCTATAACG CCAACAATCA      120
TTATGACAAG ATCTTGGCTC ATAGTCGTAT CAGGGGTTCG GACCAAGGCC CAAATGTCTG      180
TGCCCTTCAA CAGATTTTGG GCACCAAAAA GAAATACTTC AGCACTTGTA AGAAGTGGTA      240
TAAAAAGTCC ATCTGTGGAC AGAAAACGAC TGTGTTATAT GAATGTTGCC CTGGTTATAT      300
GAGAATGGAA GGAATGAAAG GCTGCCCAGC AGTTTTGCCC ATTGACCATG TTTATGGCAC      360
TCTGGGCATC GTGGGAGCCA CCACAACGCA GCGCTATTCT GACGCCTCAA AACTGAGGGA      420
```

GGAGATCGAG

430

## (2) INFORMATION FOR SEQ ID NO:841:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 101 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:841:

GAATTTTAC TTGTCTATAG TCTAGTATTG TTATACCATG TGGTCTTGTT ATAATCATGG 60  
TTTCCATTCT GTGAGTCTTC AGATTATAGG CCTCTTTGGC G 101

## (2) INFORMATION FOR SEQ ID NO:842:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 479 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:842:

GAATTCGGCC AAAGAGGCCT AAATGGCGTC GTGGCATTGA GGGGCATCCC TCCTAGAACC 60  
TCCAGGAAAA GCTCGCGGAA GACGAGGTTT TCGCGAGAGA GAGGCTCCAA GCAGTCTGGG 120  
AAGTGTAGTC CAGTTGGCTT AGCAGTAGTT TCGTTGGGGG GGAGCCGAGG TTCCGGGAAG 180  
GGGCTAGGCC GGCTGAAAA GAGATTATGA CTGTACCTTT TAACTTTGTA GCTGGAACAC 240  
AAGAAGTGT TGTTTAATGA ATGACGTACA CATTAAAGAT CTGTTGGAC GCGGAGGATA 300  
ATCCTGTGAA TTGCTAATAG TTCCTGGGT TTGGCCCTTA GTGTGACTT CAGTATGCTG 360  
AGACGGAAAC CAACACGCCT AGAGCTAAAG CTTGATGACA TTGAAGAGTT TGAGAACATT 420  
CGAAAGGACC TGGAGACCCG TAAGAAACAG AAGGAAGATG TGGAAGTTGT AGGAGGCAG 479

## (2) INFORMATION FOR SEQ ID NO:843:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 270 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:843:

TGGAAGAGCT AACTCGTCTG GCCTTTGAGC TCTTGCTGA AGAGCAAGCA GAGGGTCCCA 60  
ACCGCCTGCT GTACAAAGAC GGCTTCAGCA CCATCCTGCA CCGTCTGCTG GGTTCACCCC 120  
ACCCTGCTGC CACAGCTTTG CATGCTGAGC TGTGCCAGGC AGGATCCAGC CAAGGCCTCT 180  
CCCTCTGTCA GTTCCAGAAC TTCTCCCTCC ATGACCCACT CTATGGGAAA CTCTTCAGCA 240  
CCTACCTGCG CCCCCACAC GCATCTCGAG 270

## (2) INFORMATION FOR SEQ ID NO:844:

## (i) SEQUENCE CHARACTERISTICS:



(A) LENGTH: 413 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:844:

GAATTCGGCC	TTCATGGCCT	ACACAGCCAG	TATCAGAACC	TCAAGAAAAC	GAGGACACTG	60
GGGACAGGGA	CCAAAATTCA	GACCACTTTT	TTCTCTTGCC	TTTCAATAGG	ATATTCTGTT	120
AATTGAATTC	ATCTGAAAAT	CAAGGTCATT	GCAGAGAAGT	CAGCATTCTA	GAGCACAGAA	180
CAGGGCAAAA	CAGGACGAAA	GATGGATTTG	GAGACCAAAT	GGAGAAGGAA	GAACAGAGAT	240
ACGTGTGCTC	CAAATATGAC	ACCCAATTTC	TTTACTCAGA	GCAGTTACAT	GTGAGATTAT	300
ATTTTAGTTT	TTCATTTCTC	CTATAGGCAT	ACATACTACA	AGTCTATAAT	AGAAAAGTAG	360
TGGCTGGGCG	CGGTGGCTCA	CGCCTTTAAT	CCCAGCACTT	TATGGCGCTC	GAG	413

(2) INFORMATION FOR SEQ ID NO:845:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 126 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:845:

GAATTCGGCC	TTCATGGCCT	AGGCTCTGTC	TACCAAAAAA	AAAAAAAAAA	GAAAGAAATC	60
TTGCAGTCTG	AATACATGGT	TGTGTTCTTA	AGAAACCTGG	TGATAACAAC	GACAAAACTC	120
CTCGAG						126

(2) INFORMATION FOR SEQ ID NO:846:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 269 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:846:

GCTTCATGGC	CTAGTTGAAT	AGTCAGTTAG	AAATGGAAAG	AATGAAAGTT	GAACAAGAAA	60
GACAAAGCCT	TAGAACAAAA	GACACAGCCC	TAGAACAGAA	GGACAAGGCC	CTGGAACCAA	120
AAGACAAAGA	CTTAGAAGAA	AAAGACAAGG	CCCTGGAACA	GAAGGATAAG	ATTCCAGAAG	180
AGAAAGACAA	AGCTTTAGAA	CAAAAGGGCA	GAGACTTAGA	GCAAAAAGAC	ACAGCCCTAG	240
AACAGAAGGA	CAAGGCCCTA	GAAGTCGAG				269

(2) INFORMATION FOR SEQ ID NO:847:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 264 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:847:

```

GCGATTGAAT TCTAGACCCA CCTTCAGACC ATCTCGGAAG ATCTAAAAAG CCTGACCATG      60
GACCCTCACA AACTGCCCTC CTCAAGTGAA CAGGTGATTC TGGACTTGAA AGGTTCTGAT      120
TACAGCTGGT CGTATCAGAC GCCACCCTCT TCCCCAGCA CCACCATGTC CAGAAAGTCC      180
AGTGTCTGCA GCAGCCTGAA CAGTGTCAAC AGCAGTGACT CCCGGTCCAG CGGCTCCAC      240
TCGCATTCCC CCAGCATTCT CGAG                                         264

```

(2) INFORMATION FOR SEQ ID NO:848:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 342 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:848:

```

GAATTCGCC TTCATGGCCT AGAACATTCC AAATTTTCTT GGTTCATA CCCTTTTTTT      60
TCTTTTGAGG GGAAAAGAGG GGAGAAAAAC AGGAGTGATG TCATTCTTTT TTCATGTATT      120
CCAATTAAAG AAACAAGGCG AGGTCGTATA ATGGCATATT AATACATTAG ACTTAATCTA      180
GAACCCCTGT AGCTTTTGA TGTGTTTAT TTCTTATCTC TTTGAATTCC TGTTTGTTA      240
CTTGGCTTCC AATGGAGGTG AACTTAACAA CCATACTGA ATATTCCGTC TTGACTTTGT      300
AAACTGTGGC TACTTGAAAT GAAGTTTATC TGGGGTCTCG AG                               342

```

(2) INFORMATION FOR SEQ ID NO:849:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 249 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:849:

```

GAATTCGCCT TCATGGCCTA GGTATTCTA TTATTGTAG CTGAAATAAT TCCTGGCACA      60
AATGACTTTG AAATTATCT CTGAACATCC CAAATTCATT ATTAGCAAAT ATCAGAACT      120
TCACATCACT CCACTCTGTT ATTCACATG GTTTCTTAG GGCCTGGAAA GTTTTACAG      180
CTGGCTTTTA TTGACTGTGG TGGCTGATAT GCTGAAGAAT GGAGCTCATT GGTTGAGGC      240
TTCTGCCAG                                         249

```

(2) INFORMATION FOR SEQ ID NO:850:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 417 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:850:

```

GAATTCGGCC TTCATGGCCT AGACATGAAT TCTTTGACTT GTGCTCATTC TTTCTGAACT      60
TATTGAGGCT TATATATATC AAATAAGGTT AATTTACACA ATAATTATTT TTAATAATTA      120
ATAAACTCAT TCATGTAGTA TATTTTAAAA CATTATTTCC TCTCATTTT CCTTCTCTTT      180
TTTCTTCCTA TATATTTTAA AGGTTTCAAG AGAAAACGGG CTTCAGTTTT TAAAAAATG      240
TAGACTTGCA TTTTACTGT GCTTATTAA AATAATGGAT ATAATTATA TTAAGGTCCA      300
AATTATTTTA TTCACAGGAT AATCATGGTC TCTGATAAAA GATGCCCACA TTTCTGTGTA      360
CTCACAGTTG TTGTATATTT TTCAATTTC AATTTGAAAG TAAACTCAAC ACTCGAG      417

```

## (2) INFORMATION FOR SEQ ID NO:851:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 239 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:851:

```

GAATTCGGCC TTCATGGCCT AGCTAGCTAT TGTAATACA AATAATAAAG TCTGCATTTT      60
CTGTCTTCTT TAAGCCTTCA TTGCCTATTA AATCATTACA TTTAGATTA GATATTATAT      120
TTTGATCATT TGAGGAACCA AATTAAAAAT ATGGAATAAG TATGGCATTG AATTATACAT      180
GCCTATTGCT AATATATTCA TATTTTATAG GATTTAATGA AACAGTCTCC CAGCTCGAG      239

```

## (2) INFORMATION FOR SEQ ID NO:852:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 489 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:852:

```

GAATTCGGCC TTCCCTAGGA AAGTTCTTCA CATCAGGAAA CATTAGATCA TATACAGAAA      60
CAAATAAAT TTGATAAAGT AGTTATGGAG TTTTGCATG AGTGATGGT GAATAAATTC      120
AAGAAAACAT CTATTCGTAA GCAACAGACA AATAATCAAA CAGAAGTAGT TAAAAAATTT      180
GAAAAAGATG TTATGGAAGG TGTTACTGTA GATGATCACA TGATGAAGGT AGAGACAGTT      240
CATTGCAGCG CTTGCAGTGT GTATATCCCT GCTTTACATA GTTCAGTTCA GCAGCACTTA      300
AAATCTCCTG ATCATATCAA AGGGAAGCAG GCTTATAAGG AACAAATAAA AAGAGAGAGT      360
GTCTTGACTG CTACAAGCAT TTTAAATAAT CCAATAGTGA AGGCGCGATA TGAACGTTTT      420
GTTAAGGGTG AGAATCCTTT TGAAATTCAA GACCATTCTC AGGATCAGCA AATAAAAGGC      480
AGACTCGAG

```

## (2) INFORMATION FOR SEQ ID NO:853:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 259 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:853:

GAATTCGGCC	TTCATGGCCT	ACTTCACTAA	CCTTTTTTGT	TTTAAATGA	ACCTGCTACT	60
TAAAAAAAT	ACACATCACA	CCCATTTTAA	AGTGATCTTG	AGAACCTTTT	CAAACCCAGAT	120
GGAGCATTGC	TTGCAAATTT	TTTTTCTCTA	TGTTTGCATG	CGCTCGTGTG	TGTGTGTCCA	180
GGCAAGAACA	CATTTTATAA	AAATAAGAAC	ACTTGGGCTG	GGCATGGTGG	CTCATGCCTG	240
TGATCGCAGC	TCTCTCGAG					259

## (2) INFORMATION FOR SEQ ID NO:854:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 217 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:854:

GAATTCGGCC	TTCATGGCCT	ACACAGCTGC	AGTCAACATC	CACAACTACC	GGGACCACAG	60
CCCCTACTGC	TGGCTGGTGT	GGCGTCCAAG	CCTTGGCGCC	TTCTACATCC	CTGTGGCTTT	120
GATTCTGCTC	ATCACCTGGA	TCTATTCCT	GTCGCCGGGC	TACGCTTACG	GGGTCCTCTG	180
GCACAGAACC	CCAAGGCGGG	CAACAGCAGG	GCTCGAG			217

## (2) INFORMATION FOR SEQ ID NO:855:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 246 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:855:

GAATTCGGCC	TTCATGGCCT	AGACCTGCCT	CGAAAATAAA	TAAATAACCC	ACAGAGCTGA	60
GCACAGGCTT	CTTCATGCTT	TTCTTTGGA	AGGTGTCCTA	GATATATGAT	GATTTCTTTT	120
TTCTTTCACC	TCCTCTTGAT	TGTCACAAGT	AGCTTGCTTG	GCTCAGGAAC	AACAGAAGAG	180
AATAAAGAAA	ATGACCTCAG	ACCTTCCTTA	CCTCAGTCTT	ATGCAGCGAC	CGCAGCCAGA	240
CTCGAG						246

## (2) INFORMATION FOR SEQ ID NO:856:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 334 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:856:

GAATTCGGCC	TTCATGGCCT	ACTGTCTCAA	AAAACAAACA	AACAAAAAGA	AAGAAAGAAA	60
AAGGAAAGGT	AGACTTATAT	AAAATAGACA	GTAAGCATA	GGGCAGCAGA	AAGGAAAACC	120
TACTCCGCAA	AAGTCACTTG	TTTAACTCTC	ATCCAGGAGC	TTCTCTAAG	TTCACCTTTA	180
TTTTTCACAC	GTCCTGGGTC	CAAATCCAC	CATGCTCTGC	CGTATTCTTG	CCCTTTGCTC	240
TGTTGTTGAA	AGAGTCATGA	GCGAGGCTC	TCTATGGATG	GTTCCAATGA	GCCACATGAA	300
CAAAGCCATC	GTCAGTAAGC	AGCCACTTCT	CGAG			334

## (2) INFORMATION FOR SEQ ID NO:857:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 129 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:857:

```
GAATTCCACT TGATCAACTT AATTCCTTTT CTTTATCTTC CCTCCCTCAC TTCCCTTTTC      60
TCCCACCCTC TTTTCCAAGC TGTTCGCTT TGCAATATAT TACTGGTAAT GAGTGCAGG      120
ATCCTCGAG                                     129
```

## (2) INFORMATION FOR SEQ ID NO:858:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 260 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:858:

```
GAATCAAGC ACCATAATTT GGCCACTCAG CTGTCATCAG GAACTAAGCC AACATTCCTT      60
TTCAGAAAAA GACTTTGGAG AGGGGCAAAC ACTTCTGACA GTCATACTGT GTACTTATTT      120
TAGAAAAATA GCTGCTCTCA GGCTTCAGTA TCCAGTCAAA TATAATATAG AACTCTAGTC      180
TGTTTGTGAGT CCTACTACAA TAATATTTTC ACAATAGACT ACCAGTTATG AAGTTCTCAC      240
ATTTTCCCG CATGCTCGAG                                     260
```

## (2) INFORMATION FOR SEQ ID NO:859:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 217 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:859:

```
GAATTCCTGT CCCACCTGCT GAATGAGTGC GTGCCAGCTG AACATCAGCG TGGCTTCGTT      60
CTTCAACACA TTTACAAAAG AAGTAAAAAT AAACAGTTT TTCTTCTCAA TTCTCCTCCC      120
TGCTTTTTC CTTTGGAACC ACAATCATGC CCCAGTAAGT GCTTTCCTAG GTGAGAGGTG      180
TGTGTCCGAG GTTGAAGGCA AGGCCAGTGG TCTCGAG                                     217
```

## (2) INFORMATION FOR SEQ ID NO:860:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 107 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:860:

```
GAATTCGGCC TTCATGGCCT AGAATATTTT TATCATCCCA AAGCTAAAAC ATTAAAAAAT    60
TTAAAGTTTA TTCTTAGAGA TTGATGCAAC TGCATATCT AATCGAG    107
```

(2) INFORMATION FOR SEQ ID NO:861:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 279 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:861:

```
GAATTCTAGA CCTGCCTCGA GGGCATCCTT TACTTTTTTT TTTAATTCAG CACAAACCAA    60
ACAAAATTTT AAAATTTGAT GAGATTGAA GTTGGACAAA AGTGTATGC AGTTTTAAAA    120
ATTTTTTTTT TTTTTTTTGA GACCAGATCT CACTCTGTTG CCCAGGCTAG AGTGCAGTGG    180
CATGATCTCA GCCCAAACCT CTACCTCTTA GGCTCAAGCG ATCCTCCCAT TTCAGCCTCC    240
CAGGTAGCTG GGAGGCTGAA ATGGGAGGAT CAACTCGAG    279
```

(2) INFORMATION FOR SEQ ID NO:862:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 266 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:862:

```
TGTATTTTTA CGTGACCTGT TTTCCAGAAT TTATGATATT TCTATGGTTG GTATTCTCAA    60
TTTTGCAAAT GTGTCTTGGT GTGGAACCTT TTCATTGTT TTGCTGGGGA ATTGATGGAT    120
CCTTTGCATC AAGATGCTTA TATTTATTCT TCAGTTCTGG GAAACTTCCC TGTATTATTT    180
GTTTGATAAT TGCTTTCTCT CTGCTTTCTC TTTTCCGTTT TTTGGAATTG CTGTTTGTG    240
TGTTCATTA CTGCAGAGAA CTCGAG    266
```

(2) INFORMATION FOR SEQ ID NO:863:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 355 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:863:

```
GAATTCGGCC TTCATGGCCT AGTGCTGTGG TAGTTTGTGC CTTTAGAGGG ATTTGTGTAT    60
CTCATATAAT TTAATTTTTT GACATTCAC TTTTCACAAT ATTCTGTTAG AATTCTTTTA    120
ATTTCTGTAA GGTGATATCT ATACTTTCAT TTATGTCTAG TAACCTGAAT CTCTCTCTT    180
```

TTGTTCTTTC	TCGGTCAAAC	TAATAATACG	TCAATTTTAC	TGATATATCA	GAAGAACCAA	240
CTTTCAAGTT	TATTAATTTT	CTCTATTGTT	TTTATTTTCA	CTACTTATCT	CCATGCTAAT	300
CTTTATTATT	TCTTCCTTCT	GTTTACTTTG	GGTTAAGTCT	GCTCTTTCAC	TCGAG	355

## (2) INFORMATION FOR SEQ ID NO:864:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 205 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:864:

GAATTCGGCC	TTCATGGCCT	AGCTTACTTT	ACAATTCTGC	TGTTTGTCAA	GTGTTCTTAT	60
AGTTTTTTTT	AAAGGTATGT	TAACATTTTT	TCCCTTTTGG	TTTATATTTG	TAGGAATCTT	120
TGCCTTTAAG	TGTGCCCCTG	CAGAAGAATT	ATTTAACATG	TTGCAAGAGA	TTATGCAAAA	180
TAATAGTATA	AATGTGGAGC	TCGAG				205

## (2) INFORMATION FOR SEQ ID NO:865:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 368 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:865:

GAATTCGGCC	TTCATGGCCT	AGTCACTTGT	TCTGTAGAAT	ATGTTCAAAT	CTGATTTTGT	60
CTTTTTGTTT	TCTTGTTGTT	TTACCTTGTT	CCTCTATCCC	CTGTTTTTTC	TGAAAATGAA	120
AGTTAGCTTA	GAAGTTTCAT	TCCATTCTGG	TTCAAAATGC	TTAAGTGCTT	TATGTCGTGT	180
CATATTAGGA	AACACAGTAT	CTAGTGGTCC	CAATTTTAGT	GATTCAAAAA	TCAGTCTCTA	240
GGTTCAGAGA	TTAATCAGTA	GATTCAGAGA	TCTCTCCATT	GTAAATTTCT	TAATTAACCT	300
TTGAATTGCT	AATGTTCTGT	TCAGTGATCG	TTGTGGCCCA	AATTATTTAT	TTCAGTAGGG	360
GACTCGAG						368

## (2) INFORMATION FOR SEQ ID NO:866:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 144 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:866:

GAATTCGGCC	TTCATGGCCT	AAGGAGCAGC	AGGAACATGG	TACATAAAAT	CATCCTGCTT	60
CTTATAATGG	CAGGAATCAG	TGGGATATGG	TATTTGTGCA	GCATGCTGGG	GCATCCACTA	120
GAAAGGCCTG	AAGGAAGACT	CGAG				144

## (2) INFORMATION FOR SEQ ID NO:867:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 268 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:867:

```
GAATTCGGCC TTCATGCGAT TGAATTCTAG ACCTGCCTTG AGCCCCTCCA CCCCCAAATC      60
CTTCCTCTCC TCCCAGTCCC ACCCCTTGCC CCACGGAGTC CTGGGGACGC AGTGCCCCAG      120
CTGGGAAGAG GCGGGGATCG GGCAGTGGTT CCTCCTTGTC CCCGCTTTCT TGGGGGCTTG      180
CTACTTTTGG TCTTCTATTG TGTGGCTTTC TGAGTATTTG AACCCAGTC CTGTGTCACC      240
TTCCTTTTTC CTTCGCTGTC CCCTCGAG                                     268
```

(2) INFORMATION FOR SEQ ID NO:868:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 384 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:868:

```
GAATTCGGCC TTCATGGCCT ACAGAACTAT AATTTATCTT AGTTTAAGCC ACTGGTAAGT      60
GTAATTGTAA TTGTAATTTG TTACATCTGC TATAGTGAAA CTAATACTGA AATTTAGAAA      120
AGATGGGTAA CTTATTATGT GGTGAAGTTT AAAAAAGATA AGTAACTCGT TGAAGATCAC      180
ATAATTAGAA AAGAAAGCAG TAGAGCTTGG CCTTGAACTC AACCAGTGTG ACTCCAGAGC      240
TTGTAGAACA GAATAACCAC CTCCAAGGCC AGCTGAATCT GACCACAGTC TGGTGGAATT      300
CTAGTACATC TCGTTGAGAA GTGGGATTGC CGGAGGGGAG TTGGTTATTC ATGAAGGTGA      360
TGATGTTTGT CCAATGTCCT CGAG                                     384
```

(2) INFORMATION FOR SEQ ID NO:869:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 273 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:869:

```
GAATTCGGCC TCATGGCCTA CTTGGAGAGT TTTGTAAGGA GAGTGGCAA CATAGCACGG      60
ACTAATGCCA CGAACAACAT GAATCTAAGC CGAAGCAGCA GTGATAACAA CACTAATACT      120
TTGGGGAGGA ATGTGATGAG CACAGCAACT TCTCCTCTTA TGGGTGCTCA GAGTTTCCCT      180
AATTTGACCA CACCTGGTAC TACATCAACA GTGACTATGT CAACATCCAG TGTTACTAGC      240
AGCAGCAATG TAGCTACAGC AACAACTC GAG                                     273
```

(2) INFORMATION FOR SEQ ID NO:870:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 278 base pairs  
 (B) TYPE: nucleic acid



(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:870:

GAATTCGGCC	TTCATGGCCT	AGGTCAGGAG	CCTTCTTGA	GTCCCAATTC	TGCATCCCCA	60
AATGATAAAG	ATGGGGTGAA	GGAAGTGA	GCCATGAGTT	GGAGAGTCCT	CTTGCTTGAG	120
GTCCCTGAGA	ATGTGGTCCC	GGAGTATCCG	GATCACTGGA	AGCCAGGACT	TCAACGCATT	180
GGGTAGTGAG	GGATGGAGGG	AGGGGCTGGA	CGCAGAAGCA	GGATGAAGTC	TGCTGGGTGT	240
GAGCCTCCAA	GGAGGTAGAA	CAAAGAGGGC	AACTCGAG			278

(2) INFORMATION FOR SEQ ID NO:871:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 270 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:871:

GAATTCGGCC	TTCATGGCCT	ACCAGACTCC	CATAATAATA	AACCCTGGTA	ATAAACAAAG	60
GAACTCCTTC	CAGTTTCAGT	GTATCAACCA	CCACGTACCA	GATAAAATCT	TATTTACCTT	120
TTCACAATTT	ACCAGTGTG	GGCTGTGAAT	TAATATTTTT	ATTTTCTGT	GCATTCATAA	180
ATTAAGATTA	TTTATTGTA	TTGTAAGTGT	AATTTTGAGA	CTAAAGTCTA	AAAACAAGAC	240
ATCATGAAAT	GGAGCTGGAG	GATACTCGAG				270

(2) INFORMATION FOR SEQ ID NO:872:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 339 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:872:

GGTTTAGAAA	GGGCACAAAC	AGTGCAAACC	TGTCATGAA	CCTTTACATG	TCATGAACAG	60
GGCAGAATGC	TTCAGGAAAG	AATTGTCGAA	AGTAAAAAAG	CAAATAATGG	ATGCAGCTTA	120
TTCTAGTTAT	TGAAGAATCC	AACGGGATGG	AAGCTAAATG	TAGCACATGG	CATGGGCGAT	180
GTCTCAACAG	TGAGTGGGAT	AACAAGTCGT	TTTAATGGTT	CAGGGCCAAT	AACCGGGGAG	240
GGTGAGGAAC	GGCATCTCTG	TTTTGAGTAA	ACAAGAGTGA	TTTCCTTCCC	TGACACTGAA	300
AAATGAAACC	TTTGGGGAGA	TAGAGGAAGC	GATCTCGAG			339

(2) INFORMATION FOR SEQ ID NO:873:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 245 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:873:

GAATTCGGCC TTCATGGCCT AACCTTTAAA CCCTAAAATC CAGGAAAAGA AAATAAATAC	60
ATTATCATGG ACCTGAGGGA TTTTACCTG TTGGCTGCTC TGATTGCCTG TTTAAGGCTG	120
GATTCGCAA TAGCTCAAGA ACTTATTAC ACTATTAGAG AGGAATGCCC TGAAAATGTG	180
CCCATAGGAA ACATACCAA GGATCTGAAC ATTTCTCACA TCAATGCTGC CACAGGGCCA	240
CCTCG	245

## (2) INFORMATION FOR SEQ ID NO:874:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 233 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:874:

GAATTCGGCC TTCATGGCCT AGTTTCTTC ACTGGCATT CACAAATTTAA GCCATTGCTG	60
CCTCATTAGC CTTGTATTTT GTGTGCATAT CATATATCCA GACCTGTATG TTCATTAA	120
GCATTCTTAT ATCACACTGT CTCCTCATCT ACCATATGGT AAATGTTAAA ACTCCACATT	180
TGTCTGCATC AGGGAAAATG CATGGGCACA CATCCTCCCC CCCTTCCCTC GAG	233

## (2) INFORMATION FOR SEQ ID NO:875:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 278 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:875:

GGACAGGAAG TCAACTTCAA GCAGATTGAC TTGAAACGGG ATCTCATTTA GGAAGCATAA	60
GTGTCCAATC AAAAACTGTG TATTTTTTTA AATTGGAAA ATACTCAAGT TCCAGTTGCT	120
TATCATTCTC CTTCACTTTC TGAAAACCTG GCAATCCCAT GTGGACTTCT GGTAGAATGA	180
GCAATGCAAA GAACTGGCTT GGAATTGGCA TGTCCTTGTA CTTCTGGGGG CTGATGGACC	240
TTACGACCAC CGTTCTCTCG GACACCCAC ACCTCGAG	278

## (2) INFORMATION FOR SEQ ID NO:876:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 290 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:876:

GAATTCGGCC TTCATGGCCT AGTCCTCAA TTAGTTATTG CATTATTTTC AAGTATTGTA	60
TTATCATTTA TTGATATTGG TAGTGTTTCC TAAAACAGGA AATACATAAT TTGGCATCCT	120
TATTCTTAGT TTTATACCTA AAGAACCTAG TAACTCACAG GAGAACGTAG TAACATTATC	180

ACTTGTTAAT CAAGCTTTCA GTGAAACAGT TTATCAAACC ATTTTTTTTA TTTTGATTCA 240  
GCAAATTTGT CAACTAAATT TAATTTAAAA GTAGAGGTCC AAAGCTCGAG 290

(2) INFORMATION FOR SEQ ID NO:877:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 260 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:877:

GAATTCGGCC TTCATGGCCT ACTCAAATTG GAAAGAAAGA TTCCTTGAGA CTTACTTTTA 60  
AAATCTAAAG TGTGAGGNNNA ACANCAGAGT AAAGNCCAGA CTCATTNNAC CTTGATGTC 120  
TGCATAGATC CAGNAGTTGT ACATTTTACC TAACAACATC ACTTTTGTTG AACATTCCAA 180  
CTCCAGAATG ATCCCAATC ACCCTAATCT CAGAATGCTG GAATGATGTC TGTGGCAAA 240  
CCCAGGACTC CACACTCGAG 260

(2) INFORMATION FOR SEQ ID NO:878:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 180 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:878:

GAAGCGACCA TTCGTCCAAC AGGTATGGCT GGTTTTGTG CAATGAGAGA ATGTCCACTC 60  
GCAATGATGA GCCTGAGAAG GCAAGTCGTC CGTTTGATGT GGATCGCGAT GGTTTTGTTA 120  
TGGGTGAAGG TGCCGGGATT CTTATTCTGG AATCACTCGA ACATGCTGAG AAACGTGGAG 180

(2) INFORMATION FOR SEQ ID NO:879:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 497 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:879:

GAATTCGGCC AAAGAGGACT ACACAGAGCC CCTGTTTGGG AATTGAGAT TCTGTGTCAT 60  
GCTGTTTTTC CTTTCAGAAAT TGCTTGAAAT CGAGTTCTCT TAGCCACTGG ACACCTAGTT 120  
TTCAGGAGAA TGTCCAAGA TTGTTTATAT ATACAAAATG GCAAAAGTAC TGTTTTTCGA 180  
ATTGATAATT CAAGCAAAGG CTTCTCTTTA CTGTCACCTGA TTTTTTTTTG TTTTATTTT 240  
GTTTCCTTGT TTCTATTTCC TTGAAGCTTT GAAGGGAGGA GAAGCAGAAA ATTTTGTTTA 300  
TGTTTGTTAA AAATCAGAAC TACTTAATGC TTTTGGCCAC AGCATATTTT CTTGCCGTGT 360  
GGAGCCGTTA GGAAGATTAC CTATGTCCTA ATCTTCAACC TGAGAAGATT TTTGACTCTT 420  
GTGTCTACTG TTGATTGTTT GCTTGAGTTC TCAAAGACCT GTGGCCAGGT ATTTTAAAAA 480  
GTCGTCTATT TCTCGAG 497

## (2) INFORMATION FOR SEQ ID NO:880:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 322 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:880:

```
GAATTCGGCC AAAGAGGCCT AGCAAAATCA AATTCAACCC ATGAGTCACA GTGCTTTCTT      60
CAACAAGAAA ACATTGAACA CAGAAAGCAA TTGTGAATAT AAGGACCCTG GGAAAATGAT      120
TCGCACGAGG CCCACCTTG CTTCTTCACA GAAACAACCT CAGAAATGTT GCTTATTTAC      180
AGAAAGTTTG AAGCTGAACC TAGAAGTGAA CGGTCAGAAT GAAAGCAATG ACACAGAACA      240
GCTTGATGAC GTTGTGGGT CTGGTCAGCT ATTCAGCCAT AGCTCTTCTG ATGCCTGCAG      300
CAAGAATATT CATAAGGAG AG                                     322
```

## (2) INFORMATION FOR SEQ ID NO:881:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 481 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:881:

```
GGCCACCTG TGTCTGGTT GAGGGTCTCC AGGGTTCTTT GGGGCCCAG GCCAATGGTG      60
GCAGAGTCTA CATAGAACTA TGCTTCGTGG GTTCTGGGG AAAACCTTC GACTTGTGTTG      120
CTATACTATT CAATATGGCT GTATAGCTCA TTGTGCTTTT GAATACGTTG GTGGTGTGTTG      180
CATGTGTTCT GGACCATCAA TGGAGCCTAC AATTCAAAAT TCAGATATTG TCTTGCAGA      240
AAATCTTAGT CGACATTTT ATGGTATCCA AAGAGGTGAC ATTGTGATTG CAAAAGGCC      300
AAGTGATCCA AAATCAAATA TTTGTAAGAG AGTAATTGGT TTGGAAGGAG ACAAATCCT      360
CACCACTAGT CCATCAGATT TCTTTAAAG CCATAGTTAT GTGCCAATGG GTCATGTTTG      420
GTTAGAAGGT GACAATCTAC AGAATTCTAC AGATTCCAGG TGCTAGGCCT CTTTGCCGA      480
A                                     481
```

## (2) INFORMATION FOR SEQ ID NO:882:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 387 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:882:

```
GAATTCGGCC AAAGAGGCCT AGGGAAGAGT GGAACAAAAG TCAGTCGTAC ATTCAGCTAC      60
ATCAAGAATA AAATGTCTAG CAGCAAGAAG AGCAAGAAA AGGAAAAAGA AAAAGATAAG      120
ATTAAGGAGA AGGAGAAAGA TTCTAAAGAC AAGGAGAAAG ATAAGAAGAC TGTCACGGG      180
CACACTTCA GTTCCATTCC TGTGTGGGT CCCATCAGT GTAGCCAGT TATGAAGCCC      240
TTCACCAACA AAGATGCCTA TACTGTGCA AATTGCAGTG CTTTGTCCA CAAAGGCTGC      300
CGAGAAAGTC TAGCCTCCTG TGCAAGGTC AAAATGAAGC AGCCCAAAGG GAGCCTTCAG      360
```

GCACATGACA CATCATCACT GCCCAGC

387

## (2) INFORMATION FOR SEQ ID NO:883:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 443 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:883:

```

GAATTCGGCC AAAGAGGCCT AACGCAGCCA TGGCTCGTGG TCCCAAGAAG CATCTGAAGC      60
GGGTGGCAGC TCCAAAGCAT TGGATGCTGG ATAAATGAC CGGTGTGTTT GCTCCTCGTC      120
CATCCACCGG TCCCCACAAG TTGAGAGAGT GTCTCCCCCT CATATTTC CTGAGGAACA      180
GACTTAAGTA TGCCCTGACA GGAGATGAAG TAAAGAAGAT TTGCATGCAG CGGTCATTA      240
AAATCGATGG CAAGGTCCGA ACTGATATAA CCTACCCTGC TGGATTCATG GATGTCATCA      300
GCATTGACAA GACGGGAGAG AATTTCGTC TGATCTATGA CACCAAGGGT CGCTTTGCTG      360
TACATCGTAT TACACCTGAG GCGGGCATAA CACAGCAAGA CGAGAAGACC CTATGGAGCT      420
TTAATTTATT AATGCAACA GTA                                         443

```

## (2) INFORMATION FOR SEQ ID NO:884:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 353 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:884:

```

GAATTCGGCC AAAGAGGCCT AAACATCATT TGTACTCTAA TCCAATCAAA GAAGAAATGA      60
CTGAGTCTAA GTTCTCTAAG TACTCTGAAA TGAGTGAGGA AAAACGAGCC AAACCTCGTG      120
AAATGAGCT CAAAGTTATG AAGTTTCAGG ATGAATTGGA ATCTGGGAAA AGACCTAAAA      180
AACCAGGCCA GAGTTTTTCA GAGCAAGTAG AACACTACAG AGATAAACTT CTTCAACGAG      240
AGAAAGAGAA AGAGTTAGAA AGAGAACGAG AAAGAGACAA GAAAGATAAA GAAAAATTGG      300
AATCTCGCTC CAAAGACAAG AAGGAAAAAG ATGAGTGTAC TCCGACAAGG AAG          353

```

## (2) INFORMATION FOR SEQ ID NO:885:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 475 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:885:

```

GAATTCGGCC AAAGAGGCCT ACAATTTTTT GCCTTTTTTAC CCTTCTGTCC TTTAATGCCA      60
TCTCTTTCTC AATTATTTTC TCTCATTTT TTTCTGAGCA GACTTATACA AAAAGGAACA      120
TAAATTAAAT TTGCCAAATA TCAAAAGAGA GGAACTTTTT ATTTTATTATT TTTTGGAAAC      180
GGAGTCTCAA TCTGTCTCCC AGGCTGGAGT GCAGTGACGC AATCTCAGCT CACTGCAACC      240
TCCGCCTCCC AGTCAAGAG ATTCTCTGCC TCAGCCTCCC GAGTAGCTGG GATTACAGGT      300

```

ACCCTCTACC ATACTCAGCT AATTTTGTGA TTTTGTAGTAG AGACTGGTTC ACCATGTGGG	360
CCAGGCTGGT CTCGAACTCC TGAATTCAGG TGTCTGCCT GCTTTGGCCT TCCAAAGTGC	420
TGGGATTATA GCGGTGAGCC ACCACTCTCC ACTGAACTTT TTAATCTTAG AGCAG	475

## (2) INFORMATION FOR SEQ ID NO:886:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 484 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:886:

GAATTCGGCC AAAGAGGCCT AGGGGTGTTA ATTAGCTCAG CTGTAGCAAT CATTTCATAA	60
TGTATATCAA AACATCCCAC TGTATACTTT ATACTTTTTT ATAAAAATAA ATATTCTTAC	120
AAAAGGACAG GCGCTGTGTC TGTCTGGCTC ACCATTGTAC CCAATACCCA ACAGGGTGCC	180
AAGTACCCAA TACCCAACAG GGTGCCAAGG AACACAAAAG GCACTCAAAA TATGTTTGT	240
GATTGGAGTT TACAAGGAAG AAAGGTATTT TCCTATCCCT CTCTTCCCTT CCCACCCAAA	300
CATAGCTTCT TCTAAGAAAA GAAACTGAGG CTGGGCAAGG TTAAAGCTA GCTCCTGGTA	360
CTTTTGCATC CACACTCAGT TTACCTGTGC CTTAAACCAG ACTTCATCAA ACTTCAGTCT	420
TCACAAGTCA CTTCAACATT TTTGCTCTAC CTACTTACTG CCTGTGTAGG CCTCTTTGGC	480
CGAG	484

## (2) INFORMATION FOR SEQ ID NO:887:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 184 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:887:

GAATTCGGCC AAAGAGGCCT AGTGGGACAT AAGGCTGGAA GGTAGCACAC ACAGCACCAT	60
ATTCTTTTTT ACTTGATGC GAGTTACTTT GAGTGCTTTT CTCTTTACCA AATATATGAG	120
TTCTATTACT ACATTCCTTT TCTTTGTTT TTTTAGTGAG ACAGGGTCTC GTTCTGCCTC	180
CCAG	184

## (2) INFORMATION FOR SEQ ID NO:888:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 78 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:888:

GAATTCGCCC AAAGAGGCCT AGTTGCGAC TTACTTTTAA TTCAAATCA GCTGCAGATG	60
TTTGGGAGCC TTCTCGAG	78

## (2) INFORMATION FOR SEQ ID NO:889:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 546 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:889:

```
GAATTCGGCC AAAGAGGCCT AATGGAAGAT ATGCTGAAAG ACTTTCTCCT TGGAGAACAC      60
TTATTATTGG TTGGCAACCA GGGTGTAGGA AAAACAAGA TTGTTGACAC ATTCTTTCAC      120
CTGCTCAACA GACCCCGAGA ATATATTCAG CTACACAGGG ATACCACAGT ACAAACCTCTT      180
ACGCTTCAGC CTTGGTTAA AGACGGACTT ATTGTATATG AAGACTCACC TTTGGTTAAA      240
GCAGTAAAGT TGGGTCATAT TCTGGTAGTA GATGAGGCTG ACAAAGCTCC AACAAATGTC      300
ACGTGTATTT TAAAACTCT AGTAGAAAT GGAGAAATGA TTCTAGCAGA TGGAGACGC      360
ATTGTTGCAA ATTCTGCTAA TGTGAATGGA AGAGAAAATG TTGTAGTGAT TCATCCTGAT      420
TTTAGGATGA TTGTTCTGGC AATAGACCT GGATTTCCTT TCCTAGGCAA TGATTCTTC      480
GGTACCTTAG GTGATATTT TAGCTGCCAT GCAGTTGATA ACCCAAACC CCACTCGGAG      540
CTCGAG                                         546
```

(2) INFORMATION FOR SEQ ID NO:890:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 427 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:890:

```
GAATTCGGCC AAAGGGCCTA GAGATTCAT GTATTTCTCT TCACTTCCAA GAGAGTGGAT      60
AGAATGGAGA AATCTAGATT GATCTTTACA GCTCCAGATA AAGGGACTAA AAATATTGGT      120
TTAAAATATT AAAGGTTAAA GAAAGAGACT GTTGGTTTCT TTCAAAGTGA TTTAAATTTA      180
AACTAGGTTT TTATTACTAA GTTTTGGAAA TGGGGTAACC ATTTTCTTCT CATATCAAGG      240
ATATGTACAT ATTTCCCAT TCCCATAAT TAAAAACAAA CAACTCCCAT CCACTTCTTA      300
TAAATAGTTC TTAAGTTGG CTTAGTAACA ATGTATATG TGCCAGTAAT ACAGAAAAGG      360
TGGGAGTATA AAGACCATCC TGTCTGTGA GAATCCTATA GAACCAAGGT GCTGGATTAT      420
GGTGGTT                                         427
```

(2) INFORMATION FOR SEQ ID NO:891:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 346 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:891:

```
GAATTCGGCC AAAGAGGCCT AATTTTATTG AACTGCTTA TGTATGTCAA AGGAGCCAC      60
AACTTCAGCT ACACAACTTT TTGTATTGAA AGAACTCATA CTTTTGTAG CTTTATTTC      120
ACATTTAATT TAAAGTGACT TTTAGCACTA AAATGCCTAG AAGATTTTAC TCCAGACCTA      180
TAAGGAAATG TTTAGTTTTT ATGAAAAATG ACAAGTCGAT GGTTAACTT CTCATGCTT      240
TGGTGCTTTG GCCCTAATAG CACTGGACAA CACCACGACC ACATGGAAAC ATATTTTGG      300
```

AAGCAAACT TTAATTTTAT ATAACGTATG CTATGGAGAA CTCGAG

346

(2) INFORMATION FOR SEQ ID NO:892:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 95 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:892:

GAATTCGGCC AAAGAGGCCT AGTGGAGAGT GAAGCTTAAG ACTGCAATTG CAGAAAAAGT  
CCATGAGGAG AGAAGAAGGA GAAAAGGGGG AAGAG

60

95

(2) INFORMATION FOR SEQ ID NO:893:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 424 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:893:

TTTTTTTTTT TTTTTTTTAA ATACTTCGCA TACTCTCCAA TGCCCCAAAA TAGCAAGGTG  
GTAAAAAGAG AATTAGATGA TGATGTTACT GAGTCTGTCA AAGACCTTCT TTCCCAATGA  
AGACGCAGCT GATGATGCTT TTAAGACAAG TGAAGTAATT GTTGATGGCC AGGAAGAGAA  
AGATACAGAT GTTGAAGAAG GATCTGAAGT CGAAGATGAA AGACCAGCTT GGAACAGTAA  
ACTACAATAC ATCCTGGCCC AAGTTGGATT TTCTGTAGGT TTAGGAAATG TGTGGCGATT  
TCCATACCTA TGTCAGAAGA ATGGGGGCGG TGCATATCTT TTACCATATT TAATACTACT  
TATGGTAATA GGTATTCCCC TTTTTTCTT GGAAGTCTCT GTGGGTCAA GAACCACTCT  
CGAG

60

120

180

240

300

360

420

424

(2) INFORMATION FOR SEQ ID NO:894:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 390 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:894:

GCCAAATCA AGCAAAGTAT GAAGAAAGAT AAAGAAGGGG AAGAAAAAGG GAAGCGAAGA  
GGATTCCCA GCATCCTGGG ACCCCACGG AGACCAAGCC GTCATGACAA CAGTGCAATT  
GGCAGAGCCA TGGAAGTACA GAAGGCGCGC CACCCTAAGC ACTTATCCAC ACCCTCATCT  
GTGAGTCTG AACCTCAGGA CTCTGCCAAG TTGCGCCAGA GTGGGTTAGC AAATGAAGGA  
ACAGACGCTG GATACCTGCC TGCCAATTCC ATGCTTCTG TAGCTTCAGG GGCCTCTTT  
TCCCAGGAAG GAGGGAAGA GAATGATACA GGATCAAAGC AAGTTGGAGA AACATCAGCA  
CCTGGAGACA CCTTAGATGT CACCCTCGAG

60

120

180

240

300

360

390

(2) INFORMATION FOR SEQ ID NO:895:



- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 595 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:895:

```
GAATTCGGCC TTCATGGCCT AGTAGCTGGT ATTTATTCCC CAAAGTAATA ATGTTGAAGT    60
ATGGGTCTCA TCATTCCCAT ACACAGAAAC ACAAACACT TTGATCATAA ACTTTTTTCT    120
TCAGAAGCCA AACTAAGTTG CAGAATAATA GAGCCACTGG TTTAATGTTT CCTCAAGATA    180
GGTTTTAGTG TAAGCTAGTA TTCTGTGTGT TCGTAGAAAT GATTCAATAC CTGCAGCTGG    240
TGAATTAGGA ATTGTATTG TTGCCTTTT TATATTAGAT GAGGTGCAAA AATTTTAAATG    300
CTAGTCAGTA TGCACCACCA CAGGAAAGTT AGATCCCATT AGCACTTGAA ACTACAGCTT    360
TGGAACTTA GGCTAAGTTA ATTTGGATT GTTACTTGAT TCACCTACTG ACCTTTTCTT    420
TTGTTTGAAG TGCTTATCAG CATAATGAGC TAAGTGTCAT GCATATTGT GAAGAAACAC    480
CCTTTTGGT CCCTTTGGG ACAGAGAGGT ACTCCTTGAT CTTTATGAAT GACAGGTTAC    540
TGTTTTGCCT TATTGCTTAA CTTAATGTAG TGAATAAAG CAGACGAGGC TCGAG      595
```

(2) INFORMATION FOR SEQ ID NO:896:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 341 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:896:

```
GGCTGATCCG CGTGAACATG GAGGACTTGC GAGAGCAGAC TCACACCCGC CACTATGAAT    60
TGTACCGACG CTGTAAGCTT GAAGAGATGG GGTTCAGGA CACTGACCCT GACAGCAAAC    120
CCTTCAGTCT TCAGGAGACA TATGAAGCAA AAAGGAATGA ATTCCTGGGA GAACTGCAGA    180
AGAAAGAAGA AGAAATGAGA CAAATGTTG TTATGAGAGT GAAGGAGAAA GAAGCTGAAC    240
TTAAGGAGGC AGAGAAAGAG CTTACGAGA AGTTTGACCT TCTAAAGCGG ACACACCAAG    300
AAGAAAAGAA GAAAGTGGAA GACAAGGAGA AGGAGCTCGA G      341
```

(2) INFORMATION FOR SEQ ID NO:897:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 382 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:897:

```
GAATTCGGCC TTCATGGCCT ATGCCTTAAT TTTGCTGTTT GCCCTCGGAT CTCTGGGTTT    60
GATTTTGGC TTGACTTTAA ACAGACATAA GTATCCCTT AACCTGTACC TACTTTTGG      120
ATTACGCTG TTGGAAGCTC TGACTGTGGC AGTTGTTGTT ACTTTCTATG ATGTATATAT    180
TATTCTGCAA GCTTTCATAC TGACTACTAC AGTATTTTTT GGTTTGACTG TGTATACTCT    240
ACAATCTAAG AAGGATTTC GCAAATTTGG AGCAGGCTG TTTGCTCTT TGTGGATATT    300
GTGCTGTCA GGATTCTGA AGTTTTTTTT TTATAGTGAG ATAATGGAGT TGGTCTTAGC    360
CGCTGCAGGA GCGCCACTCG AG      382
```

## (2) INFORMATION FOR SEQ ID NO:898:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 422 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:898:

```

GAATTCGGCC TTCATGGCCT ACGAGCCTCA CATCACTTGT ACAAGCCACC TGGGAGAAGT    60
GGCCCTCAGG AAGATCCTAA AACCAATACA CAAATACAAC TTTTTCATTT CATTAAATACA    120
TCAAGTTCAT ATAAGAGTCA AACAGGTAAA AGCAGCATCC CAAACTGTTT TCTCCTCGTA    180
CATGTCAGTT CCACGATCCT CAGTCTCATA AAGTCAGGGA CTAGAGACCA ATGTAATTAT    240
CAATACGTAC CTGCCTTTGA GTGAACCTTC AATGCCAACT AGGAAGGGCG CTTCCTCAAAAC    300
GACGTTATTT GTAACCTCTA GGAAGACAAA CACGGGTCAG AACCCTACT CTGCGGGCCT    360
TGAAATGGAA AATCTCTCCT CTAGACAGAC TCATCCTGGC CGTAAATATC AGGAGACTCG    420
AG

```

## (2) INFORMATION FOR SEQ ID NO:899:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 806 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:899:

```

NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN    60
NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN    120
NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN    180
NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN    240
NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN    300
NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN    360
NNNNNNNNNN NNCNTTGCA GNTTTGGTTC CNTTNTTCC TTGTTNTTT TTTGCACAA    420
TATTTCAAGN TTTACNAGGC ATACATCAAT CCAAGTTCGG AATTTTAATT AAGAATTCGG    480
CGTTCATGGC NTAAAAGAAN TTGATGCTAC CCCCGGAAAT GCCAGAAGAG GANATACATT    540
GAAATAGACN GTGATGAAGA GCCCAGGGGT GAATTACTTT TTNTTCGGGA CANTGAACGC    600
NTTCATAAAA AGCCAAAGTC TGACAAAGAG ACAAGAGTNG CAANTNCAAT GGNTGGANAG    660
ACAGACCGAA AAGAATTTNT GAGGAAGAAA ACCAAAACAA ATCCATNNTC CAGNTCGACA    720
AATNAAGAGA AGNAAANACA GAAGAACTTT ATGATGATGC GGTATAGCCA GAATGTCCGG    780
TCAAAAAATA AGCATTCTCT CTCGAG

```

## (2) INFORMATION FOR SEQ ID NO:900:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 319 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:900:

GAATTCGGCC	TTCATGGCCT	AGGAGGGCCT	GTTTCAGAAT	TGCTTTAATA	GTTCCCTTCC	60
AGTTGAATT	ACCTTTTGCA	GGAGCCTCAT	CGTCTTCTGG	TTCTCCGCCC	TCAGGATGCT	120
CTGGGAGCTT	CATCTTTTTC	TTCTTAGAAT	CTGTTTCAAC	TTCCGAGTGC	CTCCGCTTCC	180
TCTTCCCTGC	CCCACGCGTG	CCTCTTCCTC	ACTGGCGCTG	TCCTTGCGCT	GCTTCTTCTT	240
CTTGCTCCTC	TTCCCTGCAG	AGCCATTGGC	CTCAGGGACT	TCCTCCCCAC	CAGCCTCAAG	300
GTCAGCCTCC	TGCCTCGAG					319

## (2) INFORMATION FOR SEQ ID NO:901:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 297 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:901:

GAATTCGGCC	TTCATGGCCT	AAGAAAAGAC	AAGGTCCCCA	TAAGAGTGGC	GAGAGGAACA	60
GAGCCAGGAC	ATCGGAAAGC	AAGCCCCGTG	GTTCCCAAAC	CGCAGAAGAG	GGAGCTCTGA	120
TGTTAGACAA	GCCACCCTCC	TACAAGCGAA	GGGAAAGTAA	CTTTGAGCAA	AAATGAGCAA	180
CAGAAAATGA	GATCAAGGTC	AGATCTCATA	CAAAGTTGCA	AGATGAAAGA	ATGAGCAGCA	240
GAATAACCTC	CCTGTGATGT	GGAAAGTGTG	CCAGGAAAAC	AGACCCAAAC	GCTCGAG	297

## (2) INFORMATION FOR SEQ ID NO:902:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 429 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:902:

GAATTCGGCC	TTCATGGCCT	AGGGGTTCTT	TCTCCTGCAC	GATGCCAGGT	GGTACTGGAA	60
TCTGCTGAGT	GGGATTTCGGT	GGTGAGGATC	ATAAGGGCAA	ATTTCAAAGG	CTTCTGGCTC	120
CATGAGAAAT	TCTTGAAAGCA	GGGTATCTCA	CTGCTAGAGT	CTAACGGAAA	TGCTTCTTGT	180
GGAGAAGCCC	TTTTGTAAGA	AGGATGGAGT	TGTCCTCTGC	CCAGTTTTTG	CCCTGGGAT	240
TCTGTAGGTG	ACGGTCTTAA	CTTGTGGTCT	GTTCTCTAGG	ACTGTGAGTG	GTGGATTAGA	300
AGAGAGATGA	GGAGCTGCCA	AAAGCAGCTA	CACAGAGAAC	AGAGTTAGCA	AATGGCACCC	360
GAGACAGAAC	TATAGCAGAT	GCAAGAGCCA	AAAACCCACA	GCCGCATTGA	ATTCTAGACC	420
TGCCTCGAG						429

## (2) INFORMATION FOR SEQ ID NO:903:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 307 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:903:

GAATTCGGCC	TTCATGCCTT	GTAACCATCA	GGTAGATACA	GCACCAACGG	TAGTGGCTCT	60
------------	------------	------------	------------	------------	------------	----

TTATGACTAC	ACAGCGAATC	GATCAGATGA	ACTAACCATC	CATCGCGGAG	ACATTATCCG	120
AGTGTTTTTC	AAAGATAATG	AAGACTGGTG	GTATGGCAGC	ATAGGAAAGG	GACAGGAAGG	180
TTATTTTCCA	GCTAATCATG	TGGCTAGTGA	AACACTGTAT	CAAGAACTGC	CTCCTGAGAT	240
AAAGGAGCGA	TCCCCTCCTT	TAAGCCCTGA	GGAAAAAACT	AAAATAGAAA	AATCTCCAGT	300
CCTCGAG						307

## (2) INFORMATION FOR SEQ ID NO:904:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 322 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:904:

GAATTCGGCC	TTCATGGCCT	AGGACCTCGT	AGGTCCCTAC	AGCACACAG	TGCTCTTCAT	60
CTCTCAGAGG	ACTGAACCAC	CAGCCAGCAC	CAACAGAGAC	ACTGTGAAA	GCACAAGGAC	120
CCGACGGGCA	CTGAGTGACG	AGCAGTGTGC	TGCCGTGATC	CTTGCTGTGT	TTGCTTTCTT	180
TTCCATTTTG	ATTGCCTTTA	TCATTCAGTA	CTTTGTAATC	AAGTGAAAAT	ATAACTTTAT	240
TTTTTAACTC	TATTACATTT	TATTTTGTCA	TGTACTAAAA	TTATTTCTGT	ATTGCTTTNA	300
TAAAAAACAG	TGGCACCTCG	AG				322

## (2) INFORMATION FOR SEQ ID NO:905:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 318 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:905:

GAATTCGGCC	TTCATGGCCT	AAAAAACAC	ATAATTTGAA	TCAACACAAC	CACCCACAGC	60
CTAATTATTA	GCATCATCCC	TCTACTATTT	TTTAACCAAA	TCAACAACAA	CCTATTTAGC	120
TGTTCCCCAA	CCTTTTCCTC	CGACCCCTTA	ACAACCCCCC	TCCTAATACT	AACTACCTGA	180
CTCCTACCCC	TCACAATCAT	GGCAAGCCAA	CGCCACTTAT	CCAGTGAACC	ACTATCACGA	240
AAAAAACTCT	ACCTCTCTAT	ACTAATCTCC	CTACAAATCT	CCTTAATTAT	AACATTCCAC	300
GCCACAGAAC	AACTCGAG					318

## (2) INFORMATION FOR SEQ ID NO:906:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 553 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:906:

GAATTCGGCC	TTCATGGCCT	ACAGGAAACA	TACAAAGCTG	CTCATAGTGG	GAGTCTTTTT	60
GCTCATGTTT	GTGTGCGGCC	TCTTCTTCAC	TCGACCTTCA	GGCAGCTACT	TCATCAGACT	120
GCTGAGTGAC	TACTGGATAG	TCTTCCCCAT	CATCGTCGTT	GTCGTATTTG	AAACCATGGC	180

TGTATCCTGG	GCCTATGGGG	CCAGGAGGTT	CCTTGCAGAC	CTGACGATCC	TGTTGGGCCA	240
CCCCATCTCT	CCCATCTTTG	GTTGGCTGTG	GCCCCATCTG	TGTCCAGTTG	TGCTGCTAAT	300
CATCTTTGTG	ACCATGATGG	TTCATCTTTG	TATGAAGCCG	ATCACCTACA	TGTCCTGGGA	360
CTCAAGCACC	TCAAAAGAGG	TGCTTCGACC	ATACCCACCG	TGGGCACTGC	TCTTGATGAT	420
CACCCTTTTT	GCCATTGTCA	TCCTCCCCAT	CCCTGCATAC	TTTGTATACT	GCCGCATACA	480
TAGGATTCCC	TTCAGGCCCA	AGAGCGGAGA	CGGGCCTATG	ACAGCCTCCA	CATCCCTACC	540
CCTAAGTCTC	GAG					553

## (2) INFORMATION FOR SEQ ID NO:907:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 557 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:907:

GAATTCGGCG	TTCATGGCCT	AGTAGAGAAG	ANNNTATTGC	NGTGACAATG	AGGTTTCTAC	60
GTTTCAGTGGC	AAGAGTTTTT	GTTATTCTGA	GTGTGGAAAT	GGCTTCATCC	AAAAAGAAAA	120
ACAACTTTAT	TCCACAGCCA	ATTGGAAAAAT	GCAAGCGTGT	ATTCCAAGCA	TTGCTACCTT	180
ACGCTGTGGA	AGAATTGTGC	AACGTAGCAG	AGTCACTGAT	TGTTCTGTG	AGAATGGGGA	240
TTGCTCGTCC	AACTGCACCA	TTTACCCTGG	CTAGTACTAG	CATAGATGCC	ATGCAGGGCA	300
GTGAAGAATT	ATTTTCAGTG	GAACCACTAC	CACCACGACC	ATCATCTGAT	CAGTCTAGCA	360
GCTCCAGTCA	GTCTCAGTCA	TCCTACATCA	TCAGGAATCC	ACAGCAGAGG	CGCATCAGCC	420
AGTCACAGCC	CGTTCGGGGC	AGAGATGAAG	AACAGGATGA	TATTGTTTCA	GCAGATGTGG	480
AAGAGGTGGA	GGTGGTGGAG	GGTGTGGCTG	GAGAAGAGGA	TCATCATGAT	GAACAGGAAG	540
AACACAGGAA	GCTCGAG					557

## (2) INFORMATION FOR SEQ ID NO:908:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 429 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:908:

GAATTCGGCC	TTCATGGCCT	AAAAAAGTCA	GCCAGGTGTG	GTGATGTGCG	CCTGTGGTCC	60
CAGGTATTCA	CGAGCTGAGG	TGGGAGGATC	ACCTCAGCCC	GGGAGGTGGA	GGTTGCAGTG	120
AGCCCATATC	CCGCCACTGC	ACTCCAACCT	GGGAGACAGA	GCGAGACCCT	GTCTCCAAAA	180
AAAAAAAAAA	AAATCCGGG	ATCTATTTAT	GTAACCTACTA	GAATCTTAAG	TTCAGAATTT	240
ACTCCATAAG	AGTATATAAA	AACTTACTG	TGATTTTATC	CATGTTTTTC	CTAATATATA	300
ATAGGTCTAA	GTCTTGTA	TTTCTGTCCT	GTCCACAGAG	CCTTGAAAAT	AATTTAGAGC	360
TCAGTCATTC	AGTTTGATT	TATGTATAAA	TTGAAATATA	TTAATTACTT	ATTTATAGTG	420
CAGCTCGAG						429

## (2) INFORMATION FOR SEQ ID NO:909:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 180 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:909:

```
GAATTCGGCC TTCATGGCCT AGTCCCTGAA AAAAAAAAAA GAAAAAAAAA ATTTAAATAG      60
AGGAAATACT AGCTAAGTTT AATGTAGGCC AGTTCTAAAA TAATGATTTA TTGCTGCTGT      120
TGTTACATAA TTTTCTTAAA TATTTTAAAG ATTGCACACT GTCTGCTCGT AGGCCATGAA      180
```

(2) INFORMATION FOR SEQ ID NO:910:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 387 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:910:

```
TACCTGCAGT TGTACCGGGT CACATGTGAC CAAACCTACC TGCTCCGATC CCTGGATTAC      60
GTAAAAAGAA CACTTCGGAA TCTGAATGGC CGCAGGGTCA CCTTCCTCTG TGGGGATGCT      120
GGCCCCCTGG CTGTTGGAGC TGTGATTTAT CACAAACTCA GAAGTGA CTGAGTCCCAG      180
GAATGTGTCA CAAAGTGAGT TTTAGAACTG GAAACATTTT CTCCCAATTC CCAGTGAAG      240
CTCTTGCTGT AGAAAGATAT TCAGAAAGGA AACTATTTTT CCATTCATCC ATTGTTGTAA      300
ACAGATCACT CCAAAATGTT AATCTTGAGC ATAGTGGTGG GATCATATGC CCTCTTTTAA      360
TCCAAGCATG TGTGTGCCGG TCTCGAG      387
```

(2) INFORMATION FOR SEQ ID NO:911:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 428 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:911:

```
GAATTCGGCC TTCATGGCCT AGTGTCTTGA CAATGGTTGA GCTGGTTTGG ATCACAGGAA      60
CATTTATTTG ATAACGATGG AAGGAAAAAA CAGTGCTGTA ATAAGTCGCT TCTTAAATG      120
TGGGGTGTTA TTAAAAGAAT AATGGGAAAG TGCTACTGGG AAGGCAAACA CAGCAATTGT      180
ACTCTACAGA CAGGGATTCT CCTATTGGCC ATTTTAGAAA CATTCCCCAG GCAACATGAG      240
ATTATCCAAG TGGAGAGAAC CAGAGTCAGA GCCATTTCTT AGGCCGACAG AGCAGCGCTC      300
CAGATGAGAT ACTGAAGGTT TGAAGTCAAG TGATGGCAGT AAGATCAGAA AGCAAAAGGC      360
ATATCACAAA GAAACCATAA GATTCTCCAT CTGGATATAT AGAAGATAAA TGGAAAGAGA      420
AACTCGAG      428
```

(2) INFORMATION FOR SEQ ID NO:912:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 357 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:912:

GAATTCGGCC	TTCATGGCCT	AGAAAACCAA	ATACTGCATG	TTCTCACTCA	TAGGTGGGAA	60
CTAAACAATG	AGAACACTTG	GACACAGGGC	TGGGAACACC	ACAACTTCTT	TTTCAGTTCA	120
TAACTCATAG	TCCACGATCC	ATGTGCTCTT	TGACTTGACT	TTTCTTAAAC	TCCTATTTTA	180
TGTGCTTCTG	ACTTGCTTTC	CCTTCTTATT	TGTAATCCAC	ACTAGCCTCA	AAAGATGCAT	240
GAAGTGTGAA	TTTTCACTTC	CAGGGCCATG	GATAGTTGAA	CATCTAGTAG	TGAATTTCCT	300
CTTTCAGAAG	ATAAATAAAT	TCATTCATTC	CCCTGGATCT	AGAAGGACAC	ACTCGAG	357

## (2) INFORMATION FOR SEQ ID NO:913:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 262 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:913:

CAGCCTGGGT	GGCAGAGCAA	GACTCCATTT	CAAAAAAAAA	AAAAAAAAAGC	CCAAGTCACT	60
TGCTGTTTCT	GGATCCAGTA	ACGCTGCCTC	AAATTTGATT	CAGTCACCTC	ACATACTTAA	120
CATTCTGGCT	TTCTTTTCCT	CTGTTTCTGG	CATCTGGAGA	TTTCCTTTTT	TTGTGTGTGA	180
GCTCATTTAT	GGTTATCTGT	TGTTATGTTT	AATACAACCA	TTCCTGGCTG	AGGCTGCCAC	240
ATCTAGAGCT	GGTAAACTCG	AG				262

## (2) INFORMATION FOR SEQ ID NO:914:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 471 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:914:

GAATTCGGCC	TTATGGCCTA	GTGATATGTC	ATAATCCCTT	CTGTGGGCTG	GGCCACATA	60
AGGAGAGTCA	AATCACTTGG	GTGCTGGGAA	GAGGCACATG	TCACACGTGC	AAGAAGGTCC	120
AAGGATGAGA	TTAAAAATTC	CACAAAGGTC	CAAATTCTAG	GGCCCAGACA	GAAGAGAAGA	180
GTCACATCAT	CTAGATGATG	AATGAAAAGA	TATGTCATTA	TTCTCCTTTG	GGCAGTGCTT	240
CTGCAGAAAA	GTTGCACCTT	CTAGGTGTTG	GACTCAGCAA	TATATCACAA	TGTCTGCAGT	300
ATTTTGGAAG	GAGAGGAGAG	TCACCATTAC	TTAGGTGCTA	GGCCCAGCAA	TACATCTCAA	360
GCACTTCTTG	GGCAAAGCCC	AAGCAGTAAA	AAAGAGTCAC	ATTACCTAGG	TTCTGGGTAT	420
AGCAATATGT	CACAAATGCC	CCTAAGAAGA	GGGCCAGGA	AAAGACTCGA	G	471

## (2) INFORMATION FOR SEQ ID NO:915:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 452 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:915:

GAATTCGGCC	TTCATGGCCT	AGAGTGCCTG	ACCTTCCCTG	TTCAAGAATT	TATAAAGATT	60
CCTAACAGCA	ATTCTAGAAA	AAGGATAAAG	ACCTCCACTT	GGCTTTCAGA	AGCCTCCAGC	120
ATCTGGCCCA	AGCTAATACA	GCCTTAAAC	TAATCTGGTT	ATAGCCCAGC	CCCTCATTTT	180
ACAAAGAAAA	CTGAGACCCC	TGGCTATCTA	TTAACTCGCT	CCAACCAAAC	ACATCATCTA	240
TCCCTCTCT	TCCTCCAGAT	AACACTCACT	TACCAGGCTA	CAGTGAGGTC	CACGTCTCTG	300
ATATGAGGCT	CCTGTCCACA	AGTTTGGTAA	CCTTCATCTG	CCTCATCACC	AGTGAGCACC	360
CAGCACTTAG	CACTGTGCCC	GACACAGAAA	TGAACACTCT	GCTCCTCCGG	GCCGGCGTGG	420
GTGCGCCGCT	GCGGCCACCG	GCAGCGCTCG	AG			452

## (2) INFORMATION FOR SEQ ID NO:916:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 463 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:916:

GAATTCGGCC	TTCATGGCCT	ACAAATGGTT	GGTTTATGTT	ATGATAGCAA	TTTTCTGCAT	60
AGCATCAGCA	ATGAGTCTGT	ACAACTGTCT	TGCTGCACTA	ATTCATAAGA	TACCATATGG	120
ACAATGCACG	ATTGCATGTC	GTGGCAAAAA	CATGGAAGTG	AGACTTATTT	TTCTCTCTGG	180
ACTGTGCATA	GCAGTAGCTG	TTGTTTGGGC	TGTGTTTCGA	AATGAAGACA	GGTGGGCTTG	240
GATTTTACAG	GATATCTTGG	GGATTGCTTT	CTGTCTGAAT	TTAATTAAAA	CACTGAAGTT	300
GCCCAACTTC	AAGTCATGTG	TGATACTTCT	AGGCCTTCTC	CTCCTCTATG	ATGTATTTTT	360
TGTTTTCATA	ACACCATTC	TCACAAAGAA	TGGTGAGAGT	ATCATGGTTG	AACTCGCAGC	420
TGGACCTTTT	GGAAATAATG	AAAAGAATGA	TGGAAATCTC	GAG		463

## (2) INFORMATION FOR SEQ ID NO:917:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 390 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:917:

GAATTCGGCC	TTCATGGCCT	AACGTA	CTTG	AAAAGGCTTT	CCTTTACACT	TCCAGGACCA	60
AACAGCAACT	TCCTGCCACA	CACTTCCACC	CTATCACTGG	GAGAAATCCT	TTTCTGGACA		120
TGAGCCTTTG	ACCTGGGTGG	GGCAGAAAGA	ACCACAAACT	CCATCTCCCA	ATAGAACTTT		180
GAAATTC	ACT	CTTTTCC	TTTCATGCTG	TTTGTTCCT	GCTTGTGCA	CTCCTCCTGC	240
CCCAGAACTG	CAAGATTTT	AGCTTCACCC	CTTTCTGAGA	GTAATGTTAT	CTTTTATCAG		300
AATCAGTATC	AGTTCCCCTG	TATTCTGTGC	TTCATCGAAT	TTGCAAGACT	GACCTCTTTT		360
AAGCATTTAA	TTCATCTCCA	GAATCTCGAG					390

## (2) INFORMATION FOR SEQ ID NO:918:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 360 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA



## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:918:

GAATTCGCCT	TCATGGCCTA	CAGTGACAAT	GAACAAAACC	AGCACACCAC	ACAAATGAGT	60
GATGAGGAAG	AGGATGATGA	TGGCTGTGAC	CTTTTGCTG	ACTCTGAGAA	GGAGGAGGAA	120
GATATTGAGG	ACATTGAAGA	AAATACTAGA	CCTAAAAGAA	GCAGACCTAC	ATCGTTTGCA	180
GATGAGCTGG	CTGCCCGCAT	CAAGGGGGAT	GCCATGGGTC	GAGTGGACGA	GGAGCCGACA	240
ACCTTACCCT	CAGGAGAAGC	AAAACCTCGG	AAGACACTCA	AAGAGAAGAA	GGAAAGGAGA	300
ACTCCTTCAG	ACGAGTCTTC	ATCATCCAAA	CCTGGAAGA	AAATCCCAGC	AGCTCTCGAG	360

## (2) INFORMATION FOR SEQ ID NO:919:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 279 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:919:

GAATTCGGCC	AAAGAGGCCT	AGTGCTATTG	AAACATTGGT	AACAGCAATT	TCTTTAATTA	60
AACAATCCAA	AGTCTCTGCA	GATGATCGTT	GCAAAGTTCT	TATTAGCTCT	CTGCAGGATT	120
GCCTTCATGG	AATCGAGTCC	AAGTCCTATG	GGTCTGGATC	CAGACGTGAA	CGATCAAGAG	180
AACGGGACCA	TAGTAGATCA	CGGGAAAAGA	GTCGTCGCCA	TAAATCTCGG	AGTAGAGATC	240
GCCACGATGA	CTATTACAGA	GAGAGAAGCA	GAGGTCGAG			279

## (2) INFORMATION FOR SEQ ID NO:920:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 470 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:920:

GAATTCGGCC	TTCATGGCCT	ACAGAACTTG	AAGCCATCAA	TAAAAGAGTA	AAAGACACTA	60
TGGCACGATC	AGAAGATTTG	GACAATTCCA	TTGATAAAAC	AGAAGCTGGA	ATTAAGGAGC	120
TTCAGAAGAG	TATGGAGCGC	TGGAAAAATA	TGGAAAAAGA	ACATATGGAT	GCTATAAATC	180
ATGATACTAA	AGAACTGGAA	AAGATGACAA	ATCGGCAAGG	CATGCTATTG	AAGAAGAAAG	240
AAGAGTGTAT	GAAGAAAATT	CGAGAACTTG	GATCACTTCC	CCAGGAAGCA	TTTGAAAAGT	300
ACCAGACACT	GAGCCTCAAA	CAGTTGTTTC	GAAAACTTGA	GCAGTGCAAC	ACAGAATTAA	360
AGAAGTACAG	CCATGTTAAC	AAAAAGGCTT	TGGATCAGTT	TGTAAATTTT	TCCGAGCAGA	420
AAGAAAAGTT	AATAAAGCGT	CAAGAAGAGT	TAGATAGGGG	CCCACTCGAG		470

## (2) INFORMATION FOR SEQ ID NO:921:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 455 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:921:

GAATTCGGCC	TTCATGGCCT	AGCAGTGGCG	TTGGAAGGAG	ACGCGGAGGG	GCAGTGGCGT	60
TGGAAGGAGA	AACGGAGGGG	CAGTGGCGTT	GGAACGGGGG	CAGTGGCGTC	GGAAGGGGAC	120
GCGGAGGGGC	AGTGGCGTTG	GAAGGAGAGA	CCAGGGCCGC	GGGGCTGCTT	CTTGTAAGG	180
GCCAAGCTGT	GAGGACTTCG	GGCTTTGCGG	CCGCTTTTGT	CTATGTCCCA	TCTCCTTCTT	240
TGTTTGT	TTCTCAAACC	CTTTAAAAAC	GTGAAAACCA	TTCTAGCTT	GGGGGCCCTA	300
TAAAAATAGG	CCTCGCTGGC	CCTAGTTTGA	TGACCCCTGA	AACAGACAAT	TCAAGGAGAA	360
GCTTAGTGAA	AGAGTCACTT	ATAGCTTCAT	AAAAATAAGA	GAAGATATAG	TATCCATAAA	420
ATAATAATAA	GATTGTATCC	ATGAGGTTCC	TCGAG			455

## (2) INFORMATION FOR SEQ ID NO:922:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 333 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:922:

GACATGACCC	TGGACAAAGA	ACAAATAGCG	AAGGATTGTC	TTTCAGGGGA	AGAAGAGGAA	60
GAGACGCAAT	CATCTGCTGA	CGACCTCACC	CCGTCGGTGA	CCTCCACGA	GGCCTCCGAC	120
CTCTCCCTA	ACCGGAGTGG	ATCTCGTTTC	CTGGCTGATG	AAGACAGAGA	GCCTGGCTCT	180
TCTGCCTCCT	CCGACACCGA	GGAGGACTCT	CTTCCTGCCA	ACAAATGTAA	GAAGGAGATC	240
ATGGTGGGAC	CTCAGTTCCA	AGCTGACCTC	AGCAACCTGC	ACTTGAACCG	GCACTGTGAG	300
AAGATCTACG	AGAACGAAGA	CAAGCTACTC	GAG			333

## (2) INFORMATION FOR SEQ ID NO:923:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 263 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:923:

GAATTCGGCC	TTCATGGCCT	AAGCAGCCTT	TCACCAGGGC	TCCATCTGTG	AAGAGTCTCA	60
GCCATGACTT	TGAGCTGAGC	TTGGGAGAAG	TAAAGCAACT	GTTAAGGCCA	GCCCTTGCCC	120
CTCAGACCTG	CCATGAAAGG	AATGAGCCCT	AGACTGACTC	CTGCAGCACC	CCCAGGACAG	180
GCTGGGACCA	GCTGTTTGTG	TCCAGGTGTC	AGAGTCCCTC	CTCCTCCTCC	AACCTCTCCA	240
TTGAATTCTA	GACCTGCCTC	GAG				263

## (2) INFORMATION FOR SEQ ID NO:924:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 467 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:924:

```

ATTTTGGGGA CCAAGAACCT GTACAAGGAT TTGTGATGAA CTTTCCAAT GGGGAAATTA      60
TCGACATCTT CAAGCCAGTG CGCAAGCACT TTGATATGCC TCATGATATT GTTGCATCTG      120
AAGATGGGAC TGTGTACATT GGAGATGCTC ATACCAACAC CGTGTGGAAG TTCACCTTGA      180
CTGAGAAATT GGAACATCGA TCAGTTAAAA AGGCTGGCAT TGAGGTCCAG GAAATCAAAG      240
AAGCCGAGGC AGTTGTTGAA ACCAAAATGG AGAACAACC CACCTCCTCA GAATTGCAGA      300
AGATGCAAGA GAAACAGAAA CTGATCAAAG AGCCAGGCTC GGGAGTGCCT GTTGTCTCA      360
TTACAACCTT TCTGTTATT CCGGTGTTG TCCTGCTGCC CATTGCCATA TTTATTCGGT      420
GGAAAAATC AAGGGCCTT GGAGCAGATT CTGAACACAA ACTCGAG                      467

```

## (2) INFORMATION FOR SEQ ID NO:925:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 310 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:925:

```

GCCATCCTCT GACAAAAGAA AGAATATGTA CTCAGGTGGA GAGAATGTTT AGATGAATGG      60
GGATACGCCC CATGATGGAG GTCACGGAGG AGGAGGACAT GGGGATTGTG AAGAATTGCA      120
CGGAACCTGA CGTTTCTGTG GTGGACTAAT TAAAGACATA AAGAGGAAAG CGCCATTTTT      180
TGCCAGTGAT TTTTATGATG CTTTAAATAT TCAAGCTCTT TCGGCAATTC TCTTCATTTA      240
TCTGGCAACT GTAACATAAT CTATCACTTT TGGAGGACTG CTTGGGGATG CCACTGACAA      300
CATGCTCGAG                                     310

```

## (2) INFORMATION FOR SEQ ID NO:926:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 287 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:926:

```

GAATTCGGCC TTCATGGCCT AGTGGAGACC TGGCCAAGGT ACAGAGAGCT GTGTGCATGC      60
TGAGCAACAC CACAGCCATT GCTGAGGCCT GGGCTCGCCT GGACCACAAG TTTGACCTGA      120
TGTATGCCAA ACGTGCCTTT GTTCACTGGT ACGTTGGGGA GGGGATGGAG GAAGGTGAGT      180
TTTCAGAGGC CCGTGAGGAC ATGGCTGCCC TTGAGAAGGA TTATGAGGAG GTTGGTGTGG      240
ATTCTGTTGA AGGAGAGGGT GAGGAAGAAG GAGAGGAAAA CCTCGAG                      287

```

## (2) INFORMATION FOR SEQ ID NO:927:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 332 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:927:

```

CCGCGCACCA ACAACAGCAA CAACTCCACT GCGCCGGGCT GAGGAGCAGG AATTAGGAGC      60

```

TCGCGAATAA	TATGAAAGGG	ATCCGCAAAG	GGGAAAGCCG	AGCAAAGGAA	TCCAAACCCT	120
GGGAGCCTGG	CAAGCGAAGA	TGCGCTAAAT	GTGGCCGCCT	AGACTTCATC	CTGATGAAGA	180
AAATGGGGAT	TAAAAGTGGA	TTTACGTTTT	GGAACCTCGT	CTTTTATTG	ACGGTGTCTT	240
GTGTGAAAGG	TAGGTCTGCT	TTGGGGGTCC	CCTCCGCTTT	GGATGGAGGT	GGGCTGACTT	300
GTAGATGGAG	AGAGGCTGGC	AGCTTACTCG	AG			332

## (2) INFORMATION FOR SEQ ID NO:928:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 330 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:928:

AGCCTGCCAT	CCCAGGCTTC	AGATTGGAGC	CGATACTCAA	GCAGCTTACT	GGAATCCGTC	60
TCTGTTCTCG	GAACACTAAA	TGAGGCTGTT	GTAATGACTC	CATTTTCATC	GGAACTTCAA	120
GGAATTTTCA	AACAGACCCT	CCTGGAGCTG	TCCAAAGGAA	AGCCCTCCCC	GCATCCCAGA	180
GCCTGGTTTG	TGTCTCTTGA	TGGAAAGCCA	GTTGCACAAG	TGAGGCACTC	CTTTATAGAC	240
CTGAAAAGG	GCAAGAGAAC	CCAGAGCAAT	GACACCAGTC	TGGACTCTGG	GGTGGACATG	300
AATGAGCTTC	ACTCAAGTAG	AAAGCTCGAG				330

## (2) INFORMATION FOR SEQ ID NO:929:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 266 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:929:

GAATTCGGCC	TTCATGGCCT	AGTGAGTGGG	TGATATCTGT	AAAGTGCATT	GTCTTCAGTT	60
GTAGGTGGGG	TAGGTGTAAG	GGAATGGCGG	GGGGGCATGC	AATATGGGTG	AGGGAGGGCA	120
GTGCCCTTCT	CATCCAGAC	CTGAGCCCCC	CCCAAACCT	GTCTGGACTT	TGATCAGGAT	180
AAGAACGTTG	CAGGGCGAGG	CAAGTTCCTG	AAGCCGAAGA	GGTCTGGGCT	GGGGCCTACT	240
GGAGAAAGGG	CATAGACTGG	CTCGAG				266

## (2) INFORMATION FOR SEQ ID NO:930:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 319 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:930:

GCGAAAATAA	CCTTTTCTAA	TGAGGATGTC	TGATACTGTT	ACTGTAAAAG	ATGAAACTGC	60
AACAATGAAG	GATTTGGAGG	CAGAAGTGAA	AGATACAACC	AGAGTTGAAA	ATCTTATCAA	120
ATCAGAAAAC	TATGGGAAGA	TTTGGTAGA	GAAGAATGAA	CATTGTATTG	AGAACAATAT	180
AGATTTGCAG	GAGAAAATTC	AGATCCAGTT	AACACAATCA	TTTGAGAAAAG	AAGAGAAGCC	240

CTCAAAAGAT GAAGCAGAAA AAGAAAAGGC CAGTGATAAG TTGCCAGAA AAATGTTATC 300  
AAGAGATCCC AGTCTCGAG 319

## (2) INFORMATION FOR SEQ ID NO:931:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 255 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:931:

GAATTCGGCC TTCATGGCCT AAAGAAGAGC AGGAAGTCCA ATGTGGCCGA AGCAGAGTGA 60  
GCAAGGGCAG GAGTACCAGA GGAGGAGATA GGACGCCAAA GAGTTAAGAA AAGGAGGAAT 120  
GCAGAACCTT TCCATCAAAA ATAAATAAT ACATAACCAT GGTATGTGG GGTGGGGTTG 180  
TCTCTTCTT TTGGAAAGAA GAAGGGCTTT CTGGGAATAG ATGCCAGGC CAGGCAGCAA 240  
GCTGCTAAAC TCGAG 255

## (2) INFORMATION FOR SEQ ID NO:932:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 588 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:932:

GAATTCGGCC TTCATGGCCT AGCATTTC AAAAAATTCAGT GCAAGCGCCA GCGATTGT 60  
GTCTAAGGAT ACGATTTTGA ACCATATGGG CAGTGACAA AATATGAAAC AACTGTTTCC 120  
ACACTTGCAC CTGATCAAGG AGCAGTGCTT CTCCATTTGT TTTGCAGAGA AATGTTTTC 180  
ATTTCCCGTG TGTTCATT TCCTTCGAA ATTCTGATT TATCCATTT TTTAAGGCTC 240  
CTCTTTATCT CCTTCTTAA GGCAGTGTG CTATGGCACT TTTCTATAAC CTTTTCATTC 300  
CTGTGTACAG TAGCTTAAAA TTGCAGTGAT TGAGCATAAC CTACTGTTT GTATAAATTA 360  
TTGAAATCCA TTTGCACCCT GTAAGAATGG ACTTAAAGT ACTGCTGGAC AGGCATGTGT 420  
GCTCAAAGTA CATTGATTGC TCAAATATAA GGAAATGGCC CAATGAACGT GGTGTGGGA 480  
GGGGAAGAG GAAACAGAGC TAGTCAGATG TGAATTGTAT CTGTTGTAAT AAACATGTTA 540  
AAACAAACAA AATTGTTAT TTTCTTTC CTTCGGTCAG AGCTCGAG 588

## (2) INFORMATION FOR SEQ ID NO:933:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 520 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:933:

GAATTCGGCC TTCATGGCCT AGGGGAAGGA AAGGCCCGTG TGGAGGAGCA TGGAGCCATC 60  
TGCTCATGAA GGAAAGGCAG GGATGGGGCA GAGGTGTTGG GGCTTCCGTG CACTCCAGA 120  
GGCCAAGCCC AGAGCTGTGT GTGGAGCCCA TGAGGAGCAG AGATTTTCCA GCAAAGGTGC 180

ATTTGTGGGC	CTCCAGATGG	AGGCCCTACC	TTCTCAGCAA	GGGAAGAAAC	CCCTCTCTCT	240
TTGACCTCTC	TCCCCTGCAC	AATTAGAAGG	TTCTGAAGAG	TGACTTCATT	ATTGGTGGGT	300
GAGTATATGT	TTATTGGGCA	TCTGTGGTGT	GCCAGATGTT	GTGTTGAGTG	CTGGGTGCAG	360
AGGTAAATGG	GATATCTGGT	TACCGCCAC	ATGGGGCTTA	TAGTGGGGGA	AGTGGGGGAG	420
TAAGTCAGGA	CACACGTAAG	CAAACGCTAG	AATGGATAGA	TATTGTGATT	AGAGCATTGG	480
AGAGAAAGAA	CAGGATGTTT	CAAGAAAGGA	CAGTCTCGAG			520

## (2) INFORMATION FOR SEQ ID NO:934:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 259 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:934:

GAATTCGGCC	TTCATGGCCT	ACTTTTTTTC	TCAAGGTGCA	ATGAAAGCCT	TCCACACTTT	60
CTGTGTTGTC	CTTCTGGTGT	TTGGGAGTGT	CTCTGAAGCC	AAGTTTGATG	ATTTTGAGGA	120
TGAGGAGGAC	ATAGTAGAGT	ATGATGATAA	TGACTTCGCT	GAATTTGAGG	ATGTCATGGA	180
AGACTCTGTT	ACTGAATCTC	CTCAACGGGT	CATAATCACT	GAAGATGATG	AAGATGAGAC	240
CACTGGGGAG	TTTCTCGAG					259

## (2) INFORMATION FOR SEQ ID NO:935:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 413 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:935:

AACAAATGA	AACAAACAAA	AGACAGAGGC	CAAGAAAGGC	TAAGTAACTT	GCCTAAGACT	60
ATATAATAAG	TCACAGGGCA	GGGAATAAAA	CTCAGTTTTC	CTGACTTCCA	TTAAGGTTGT	120
CTTTTCCTCA	CTCCACATTG	CCTGTCATTT	TTTTTCTGAT	TATTCTTAAG	AAGGAGTGAG	180
GAGAGAGAAT	AGAGAAACAG	ATTTTTTTCT	CGGACTATCT	TTTCTGTAGG	GAAAAACCAC	240
TGAAGCCCTA	TTAGCCTGGA	AGCTGCTTAT	AGGGTTACAA	TACTGTGTGT	CCTGCAGAAC	300
CTGTGAAGCT	CTTCTGTATT	TTCTGGACTT	TCCTGGAAAG	TCATTTAGAT	ATAATGTAAT	360
AAATATAATA	AAGTAGTTTA	GATATAATGA	GGTTTTCAAT	AGGCTTCCTC	GAG	413

## (2) INFORMATION FOR SEQ ID NO:936:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 259 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:936:

GAATTCGGCC	TTCATGGCCT	ACCCTGAGAG	TAAGCCAAAA	AAGGAAGAAA	AAAATATGGA	60
AGTAAATATG	AAAGAGTGGA	TTTTACGATA	TGCTGAACAA	CAAAATGAAG	AAGAAAAGAA	120

TGAGAATTCT	AAAAGTTTAG	AAGAGGAGGA	AAAATTGAC	CCTAATGAAA	GGTACTTACA	180
TCTTGACGCA	AAACTGCTGG	ATGCAAAAGA	ACAAGCAGCT	ACCTTTAAAC	TAGAAAAAAA	240
CAAGCAGGGC	CGTCTCGAG					259

## (2) INFORMATION FOR SEQ ID NO:937:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 263 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:937:

GCGAAACCGT	GGTCAGCTGC	AAGAAGGCAC	AGGAGAACAT	GAAGCAAAGG	CACGAGAACG	60
AAACGCACAC	CTTAGAAAAA	CAAATAAGTG	ACCTTAAAAA	TGAAATTGCT	GAAGCTTCAGG	120
GGCAAGCAGC	AGTGCTCAAG	GAGGCACATC	ATGAGGCCAC	TTGCAGGCAT	GAGGAGGAGA	180
AAAAACAAC	GCAAGTGAAG	CTTGAGGAGG	AAAAGACTCA	CCTGCAGGAG	AAGCTGAGGC	240
TGCAACATAA	GAGGGAGCTC	GAG				263

## (2) INFORMATION FOR SEQ ID NO:938:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 384 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:938:

GAATTCGGCT	TCATGGCCTA	TTCCACTACT	AGGCTGACAT	GCAAAATCCT	AAGAGAAGTC	60
AGTCTTCCAG	GATTGATCCT	GGCATTGTG	CTTGCTGTTC	CCCGTGCCTG	GAGCAGCTGT	120
CCCAGCTCCC	CTGTGGCTGG	CTCCTTCTCA	CCATCCAGGG	TTCAAGTCCAA	ATATCTCCTT	180
CAAAGAGAGA	TCTTCCAGGG	TCACCTAATC	CAGAGAGTGC	CCTCTATGGT	TGCCACATCC	240
CCCCGACCCA	CCACCCACCA	CCCCCACTT	CAACTCCTTT	ATGGCACCTG	CCCCTCCCTG	300
AAATTCTCAC	TGTTGCTTAT	TTGTTATCTA	GCCCTCTCAT	CAGAATGTAG	ATCCACTGGT	360
GACAGGGGAC	TTGTGTGCCT	CGAG				384

## (2) INFORMATION FOR SEQ ID NO:939:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 262 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:939:

GAATTCGGCC	TCCATGGCCT	AGTTGTGTTT	TTTGGGCTTG	CTATTAATGC	AAACTCTGAT	60
TGCAAAATGGA	TGTCATGTTT	CATACCTTTT	TTATCAGGAA	AAAAGCAGCA	AGCCTTCAGG	120
TGTTCCAGTG	ATGCCTGACA	CAATTGAGCT	GGACTTTATG	CTGCTCTTTA	CAGTAAGAGG	180
TGTTGCATTG	TATGTGGGGA	CTATGTGCAC	TGGCGTCTAA	GACAGTGACC	TCAACAATAT	240
TAGCTTTGCA	CAAACCCTCG	AG				262

## (2) INFORMATION FOR SEQ ID NO:940:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 300 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:940:

```

GAATTCGGCC TTCATGGCCT AGTGGAGGAC TGCTTTTGTG AACATGAGAA AGCAGCGCCT      60
GGTCCCTATG TATTTGGGTC TTATTTACAT CCTTCTTTAA GCCCAGTGGC TCCTCAGCAT      120
ACTCTTAAAC TAATCACTTA TGTTAAAAAG AACCAAAAGA CTTTCTCCA TGGTGGGGTG      180
ACAGGTCCTA GAAGGACAAT GTGCATATTA CGACAAACAC AAAGAACTA TACCATAACC      240
CAAGGCTGAA AATAATGTAG AAAACTTTAT TTTTGTTC AGTACAGAGC AGAACTCGAG      300

```

## (2) INFORMATION FOR SEQ ID NO:941:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 194 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:941:

```

GAATTCGGCC TTCATGGCCT AGTATATCTG AAAAGTACAC TGTGTTTTGA AATTATAAAT      60
TTTCATTCTG AATGAGGTTT CTTTTTTTGA TTTTCTTAA AAAAAAAAAA CAACCTGCTT      120
TGATTTGCTT TACATTCTT GCCCTCCATT TTTCTTATTA TATTGTAAAC ATTAGAAAAA      180
TGAACACCTT CGAG                                     194

```

## (2) INFORMATION FOR SEQ ID NO:942:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 581 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:942:

```

GAATTCGGCC TTCATGGCCT AGTGAGGATA AAGATAAGGA ACAGGCCAGG CACAGTAGCT      60
CACGCCTGTA ATCCCAGCAC TCTGAGAGGC CGAGGCAGGT GGATCACATG GGGCCAGGAG      120
TTTGAGACCA GCCTGGACAA CATGGTGAAA CCCCCTCTCT ACTAAAAATA GCCAGGTGTG      180
GTGGCACACA CCTGTAATCC TAGCTACTTG GGAGGCAAGG TGGGAAGTTT GTTTGAACCA      240
GGAGGCAGCG GTTGCACTGA GTCAAGATCA TGCCACTGCA CTCCAGCCTG GGTGACAGAG      300
TACGACTCTG TCCCAAAAAA AAAAAAAAAG ATAAGGAACA GACCCAACCC GAATCCACAC      360
AACCTGACAC ACAGGAAAGT CTTGCCCATC CATCCACCTA CCTCCCAAC CAGAGTAGTG      420
AAGCTATAAC CCCAGAGAGA TACCTTTGAT GTGAGCACTG TCCAGCATGG GCACCAAGGC      480
ATTCACCTGC TCCAGGAGTG CAACCTGGGA AAGGATAAAC TGCTCCTCTA AAGCAAAAAA      540
GGACAAGATA GTTGCACTGA AGCAACCTG GGCATTGCTA G                                     581

```

## (2) INFORMATION FOR SEQ ID NO:943:



- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 259 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:943:

```
GAATTCGGCC TTCATGGCCT AAAACAGGCA ACAATGACCT TTTATTTTCT GTTTGTCCCC    60
ACCTCCCCAG CCTTCCACCT CCTGTTCTTC CTACCTTCTT CCTTTTGGAC TAAATAATCC    120
CCACCTCCCT TGATCATACA GTGAGGCTAC AGTGACTGAG GGGAGAATCC CCTCCTGTTC    180
ACTCTCCCAA CCCTGCTCCA GCCCCTCAGC TTCCAGACC CTCATGCAGT TGGTTGTAAA    240
TTCCTCCAGT GAGCTCGAG                                         259
```

(2) INFORMATION FOR SEQ ID NO:944:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 360 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:944:

```
GAATTCGGCC TTCATGGCCT AAAACCTCAC GTGGCCTCTG ATTTTCATTGT GGGTGCATCC    60
ACAGGTGGCC CGAGCTGTTT TTTAGCTGCT TCCAAGGATT GAGACCCAAG TCATCATGAA    120
AAAGGCCCAA GTACAGTCTT AATGCGATAA ATCCACTAGC TAAGACGTCG AGTGCCAAGA    180
CCAGCCTTCC AGCCGAGGTT TGGACAAAGT CTCAGGTTCC CGTGACTCAG GGTAAAGGTGC    240
TGGGGCTGCC AGAGGACCTG CCCCAGCAAG ATTTTGTGCA AGAGCGAGAC TCCATCAGCC    300
CAGGCAGACG GGAGCAGGTT CTTGGCCAGC GTAGACAGCA GCAACAGCA GCTCCTCGAG    360
```

(2) INFORMATION FOR SEQ ID NO:945:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 206 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:945:

```
GAATTCGGCC TTCATGGCCT AGTGCAGGAG ACGCCCTCAC CGGAGATGGG GACCGAGTCC    60
ACACGGCTCT CACTGCAAAT GCTTTGGGAA AAACAAGACA GTGTACTTTG TGATCATATA    120
AAACAGCAAA ATAAATAGT CGTGGGCACA GGGCCAGTGA TTCTGCAGTT AGAGCCGTGT    180
GGA CTCCGTC CCCTCTCCGG CTCGAG                                         206
```

(2) INFORMATION FOR SEQ ID NO:946:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 272 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:946:

```
GAATTCGGCC TTCATGGCCT AGGTTCCCCG GCGTGGCATG GATGATGACA GAGGCCCTAG      60
ACGTGGTCCT GAGGAAGATA GGTTCCTCTG TCGTGGGGCA GACGATGACC GGCCTTCCTG      120
GCGTAACACA GATGATGACA GGCCTCCCAG ACGAATTGCC GATGAAGACA GGGGAAACTG      180
GCGTCATGCG GATGATGACA GACCACCTAG ACGAGGACTG GATGAGGACA GAGGAAGCTG      240
GCGAACAGCT GATGAGGACA AAGGACCTCG AG                                     272
```

(2) INFORMATION FOR SEQ ID NO:947:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 294 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:947:

```
GTTTTGCTTA GATTTTGCTT TGGTTAGGTT GCGTTTTGGG GTTTCCTTT TTTTGTGTC      60
GCTTAAATGC AATTTGGTTG TAAAGATTG ATTCTTTGT GTTCATCTGT TCCGCTTCTC      120
AGCGGTCCAT CTCAGCGTCT CCCTTCAGGA ACCGCTGAGT GTCCTCTCTT AACATCCAAG      180
CCTTTTAATG AAATCGTACT GAAATCTGTA TCAGCTAAGA GTCCTCCAAT CCTGGTCCCA      240
TTAACTCCAA GTGCCTTTTT GACAGTGACA ACAGACAGTC CCTCGGCACT CGAG          294
```

(2) INFORMATION FOR SEQ ID NO:948:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 462 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:948:

```
GAATTAGAAT CTCTAAAGAA ACAGGAGGGA CTTCTTAAAA ATATTCAGGT CTCACATCAG      60
GAATTTTCAA AAATGAAACA ATCTAATAAT GAAGCTAACT TAAGAGAAGA AGTTTGAAG      120
AATTTAGCTA CTGCATATGA CAACTTTGTT GAACCTGTAG CTAATTTGAA GGAAGGCACA      180
AAGTTTACAT ATGAGTTGAC TGAATCCTG GTCAGGTTCC AGAACAAATG CAGTGATATA      240
GTTTTTGAC GGAAGACAGA AAGAGATGAA CTCTTAAAGG ACTTGCAACA AAGCATTGCC      300
AGAGAACCTA GTGCTCCTTC AATTCCTACA CCTGCGTATC AGTCCTCACC AGCAGGAGGA      360
CATGCACCAA CTCCTCCAAC TCCAGCGCCA AGAACCATGC CGCCTACTAA GCCCCAGCCC      420
CCAGCCAGGC CTCCACCACC TGTGCTTCCA GCGTATCTCG AG                                     462
```

(2) INFORMATION FOR SEQ ID NO:949:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 624 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:949:

GAATTCGGCC	TTCATGGCCT	ACTCAAAGAG	ACAACAAATA	GCATGGTAGA	ATCAATTAAA	60
CACTGCATTG	TGTTGCTGCA	GATTGCCAAA	AGTACTATTA	ATCCCGTAGA	TGCAATATAT	120
CAACCTAGTC	CTTTGGAACC	TGTGATCAGC	ACAATGCCTT	CCCAGACTGT	GTTACCTCCA	180
GAACCTGTTC	AGTTGTGTAA	GTCAGAGCAG	CGTCCATCTT	CCCTACCAGT	TGGACCTGTG	240
TTGGCTACCT	TGGGACATCA	TCAGACTCCT	ACACCAAATA	GTACAGGCAG	TGGCCATTCA	300
CCACCGAGTA	GCACTCTCAC	TTCTCCAAGC	CACGTGAACT	TGTCTCCAAA	TACAGTCCCA	360
GAGTTCTCTT	ACTCCAGCAG	TGAAGATGAA	TTTTATGATG	CTGATGAATT	CCATCAAAGT	420
GGCTCATCCC	CAAAGCGCTT	AATAGATTCT	TCTGGATCTG	CCTCAGTCCT	GACACACAGC	480
AGCTCGGGAA	ATAGTCTAAA	ACGCCCAGAT	ACCACAGAAT	CACTTAATTC	TTCCTTGTCC	540
AATGGAACAA	GTGATGCTGA	CCTGTTTGAT	TCACATGATG	ACAGAGATGA	TGATGCGGAG	600
GCAGGGTCTG	TGGTGAAGCT	CGAG				624

## (2) INFORMATION FOR SEQ ID NO:950:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 371 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:950:

GATTCTAGAC	CTGCCTCGAG	CACGCTTGGA	GAAGCCCCGT	CTCTACTAAA	AATACAAAAT	60
TGGCCGGGCA	TGGTGGCGCA	TGCCTGTGGT	CCC GGCTACT	CTGGAGGCTG	AGGCGGGAGA	120
ATCACTTGAG	CCCAGGAGGT	GGAGTTGAGG	TGAGCCGAGA	TCGTGCCATT	GCACTCCGGC	180
CTGGGTGACA	GAGTGCAACT	CCGTCTCAAA	AAAAAAAAAA	AAGCATTAC	GTCAATGTCA	240
AGAGAACCTG	CTACTAATGC	TTCTTTTGAT	AGGCAGTATG	ATAGGTTGGA	AAGAATATAA	300
ACTGGGATCA	AGCTTGGGTT	CCACTTACCA	GCTGTAGTAT	GTTGAGCAAA	TTATTTAATC	360
TAACACTCGA	G					371

## (2) INFORMATION FOR SEQ ID NO:951:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 283 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:951:

GCGATTGAAT	TCTAGGGTTT	TTTTTTTTTT	GGGATCCTGG	GTAAAATTTT	ATCCAAAAAA	60
CGGGATTTTT	TTTTTTTTTA	AAAAGGAAAT	TTGAATTCAA	AATTTTGGGC	AGCCCCGGCT	120
TTTTTTTTTT	TTTTTTTTTT	TTTTTTTTTT	TTTTTTTTTT	TTGGTGGGTT	CTGAGTCTTC	180
ACTTTATTAC	TATGTCACCA	GAAGTCACCA	CCTTCACTTG	G TTCACCACA	GATGGATGGA	240
TGTCATAAAG	GAGGGTGCCA	CGGGGCCACT	GGATTCACTC	GAG		283

## (2) INFORMATION FOR SEQ ID NO:952:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 285 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:952:

```
GCTTGGCAGA TGCTAACTTC ATGGAAGATG GTAATAGGAA CAGATACTGC TCTCTGCCCC    60
TGCTTCTTGG ATTCTTCAGC TCCTACCGCT GATTCCGGATT ATCCCCTTTT GACCCTCTTG    120
GGGATCCAGA CTGCTGCCAG GAGGCTGAGT AGATACCTCA GTTATCTGTA TGTATTCTT    180
GAGAGGCTTT GGCGGATCCT CTTCACTTGG CATCCTGTGG CATCCCTAGG GTCTGGTGGT    240
AGCAGTAATA GCAACAATGA TATCTTACAT CTGGAACAAC TCGAG                      285
```

(2) INFORMATION FOR SEQ ID NO:953:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 614 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:953:

```
GAATTCGGCC TTCATGGCCT AATTCTAGAC CTGCCTGTCT TGAGAGGAAC CTTCCCTGTG    60
CTGGCTCCTG TTGTTATCTG TACCTAAGTT ACTCAGTTCT GAGTGCATGT CTGGTAAATG    120
CTGGCCATTT CTTTGAAGTT CTGACTCAGA ATCGGCCTCC ATTAGAGAAC TCAGTTCTCC    180
AAACCCAGTC ATGATCTGCC TTAAAATTGA CCGAAGAGCC ACTGATGATG GCTCAACAAG    240
CTCATTCTCA GAAATCCTAC GAAGAGGAAC TGTTATGGTA CTAACATAGG TTCGAATACC    300
TGACCGCTCT AAACGAGAAA TGGTTCGGCG AAAGCCCCCA CTATTGCTTT CAATAGTGAC    360
TGTATTTTCT GCTAGCCCTA CTCTGGATCG AGTTCTATTT GCAATACTAT CCCGATCTCT    420
ATTTTCTCCA GGACGGATCC TTCTCACTTG AAGGTCCAGT GTGATTGTTG GATGTCGTCT    480
TACAGCAGTT GAGGATCTGC TGGATTCTTC TCCTTCTTCT ACTGTTATTC TTGACACAAG    540
CCTTGAATTA GAGAATGGGG TATATGCAGT ACCTCTGCGT TCTCGTTCTC TATCTTGCTC    600
TAAAAAGACT CGAG                      614
```

(2) INFORMATION FOR SEQ ID NO:954:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 304 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:954:

```
GAATTCGGCC TTCATGGCCT ACAAGGATTT CAGGATGTTC TTCCTCTGGA CTGCTCTGTT    60
CTGGGGTGGA GTCATGTTTT ACTTGCTGCT CAAGAGATCC GGGAGAGAAA TCACTTGGA    120
GGACTTTGTC AATAACTATC TTTCAAAAGG AGTAGTAGAC AGATTGGAAG TCGTCAACAA    180
GCGTTTTGTT CGAGTGACCT TTACACCAGG AAAAACTCCT GTTGATGGGC AATACGTTTG    240
GTTTAATATT GGCAGTGTGG ACACCTTTGA ACGGAATCTG GAAACTTTAC AGCAGGCGCT    300
CGAG                      304
```

(2) INFORMATION FOR SEQ ID NO:955:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 242 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:955:

```
GAATTCGGCC TTCATGGCCT AGTAGCTATT AATCTGTGGC TATGAAATGA TCAGAAATGC      60
TAAGTGAGAT CAATATTTGT TTGGAAGAAA AATCTTGGGA AACAAACCAA GGGTTTTCGC      120
TGTGTGTGTT TTTCTTTTTC TATTTTGTN NACTTAGTCC TTAGCTAGT GGATTTAATT      180
TTGTGTGCC  TGCTTCATT TGCAATAACA ATGCAGTAGA ATTTAAACT TGGACGCTCG      240
AG                                                                                   242
```

(2) INFORMATION FOR SEQ ID NO:956:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 293 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:956:

```
GCTGCGCTGT ACTTCAGATA CTTTTTTCGA GGAACATTG TGATTTGTGG CATAAAGTAA      60
CTGTCTAAAG GAAATCTTCT GAGAGGATCT GGTCAATTTA TGAAAGGGGC AATTAAGGGG      120
AAATGGAAGC AGATCTTTTA AAGAAGGAGC ATTTGAAATT AGCCCAGGAA TCATGTCCGG      180
CGAGTCCTGC TCTTTTGTAC CTGGGCATAA TAGTCAGCCA CACAGAGCTA GAGTTAGTTC      240
AAGAATTGTC TTTCTGATC GTGCTATATT TTTGGAAACA CGCCGTACTC GAG                   293
```

(2) INFORMATION FOR SEQ ID NO:957:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 253 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:957:

```
GCAAAGAATG GTAACGTGCT TATCATGGGA GTGTTTGTAG AACTTAGCC AAAGCTTCAG      60
CAGAAAAATC CCCGAGAAAG ACCAGAGAGT TCTTCACCAC AACAAATGTC CTGCTCATCC      120
CTCTCATCAA ACAAGGCCAT TTTGCAAGAG TTTTGATGGG AAATCACTAG GCATCCACCC      180
TACAGTCCTG GTTTGGCACC TTCTGACTTT TTGTTTCCTA ATCTTAAAAA AATTTTTCAG      240
GGCAACTCTC GAG                                                                                   253
```

(2) INFORMATION FOR SEQ ID NO:958:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 466 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:958:

```

GAATTCGGCC TTCATGGCCT ACAACATCAG CTCCTGTCTG GTTCTCCAGC TGCACGACCT      60
CAAACCTACAA CCTCAGCTCT TCCCCGAGTC TTCTGCTGCA TGACCCTCAA TCTAGAACAT      120
AAGCTCCTCT CTGGGTGTCC ACCTGTAGGG ACCTCAAATT AGAACGTCAG CTCCTCCCAG      180
AGTCTTCAGC TGCATGACCC TCAATCTTTA ACATCAGCTC CTCTCCAGGT CTGCAGCTCC      240
ATGACCCTAA AAATACATGA GCAGCTCCTC CCTGAATCTT CAGCTGTACG ACCCTCAAAC      300
TACAACATCA GCTCCTGTCT GCACCTCCAG CTGCAGGGCC CTCAAACCTAG AATATCAGCT      360
CCTCCCCGAG TCTTCAGCTG CACGACCCTC AAACCTAGAAC ATCAGCTCCT GTACAGATTT      420
CCAACTGTAG GGCCCTCAA CTAGAACATC AGCTCCTCCC CTCGAG                        466

```

## (2) INFORMATION FOR SEQ ID NO:959:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 137 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:959:

```

GGAGCATGTC CTGTTATTTA TTAACTTTT CCATTTTCAT TTTTATTG GGTAAAGATAA      60
TTGCTTATGA TAAGCCTTGG GTGTGGAGAG CCGGTGCATA CAGAGTGGCG AGGCAAGCTT      120
CAATCTGCAG TCTCGAG                                          137

```

## (2) INFORMATION FOR SEQ ID NO:960:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 317 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:960:

```

GAATTCGGCC TTCATGGCCT AGAGCCGCGG CTCATGCGCG GTGCACAGAG GCTTGTTTCA      60
CATCTGTAAC AACAGGAGGA GGCCAGCCT CGTGATGAGG AATAGCAAGG AGAGAATTCA      120
GCTCCAGTTC AAAAGCCTAC AAAATCTGAG ACTGTCTATTG CTTTATAAG GATTCCAGCT      180
TTCCCTCCTG GCCAGAAATG TTCAGCCTGG ACTCATTGAG AAAAGATCGG GCCCAGCACA      240
GGCAGCGTCA GTGCAAACTT CCCCCACCCC GCCTTCCACC CATGTGTGTC AACCTACCC      300
CAGAAGGAAC CCTCGAG                                          317

```

## (2) INFORMATION FOR SEQ ID NO:961:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 470 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:961:

```

GAATTCGGGC TTCATGGCCT ACTCTGCTCA ACCTGCACAT CACCCACCAC AGTCACCAGC      60
ACAAATTGAG ATGCAACTAC AGCAGCAATT ACAACAGCAA GCCGATTCT TTCAGCCTCA      120

```

GTTTCTAAAC	CCAGCCTTTT	TGCCTCATTT	TCCTATGGCC	CCAGAAGCAC	TGCTGCAGTT	180
TCAGCAGCCT	CAGTTTCTCT	TTCCATTTTA	TATACCTGGG	ACGGAGTTCA	GCTTGGGGCC	240
AGATTTGGGC	TTGCCAGGCT	CTGCCACATT	TGGGATGCCT	GGCATGACAG	GAATGGCTGG	300
CTCCTTGCTT	GAAGACCTAA	AGCAGCAGAT	TCAAACCCAA	CATCACGTTG	GTCAAACTCA	360
ACTCCAGATA	CTACAGCAAC	AAGCACAACA	ATACCAAGCC	ACACAGCCCC	AGCTGCAGCC	420
TCAAAAACAA	CAGCAGCAGC	CACCACCTCC	ACAGCAACAA	CAAGCTCGAG		470

## (2) INFORMATION FOR SEQ ID NO:962:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 603 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:962:

GAATTCGGCC	TTCATGGCCT	AGGAGAANGA	CGTGCTGGTG	AACGTGAACC	TGGTGGATAA	60
GGAGCGGGCA	GANAAAAATG	TGGAGCTGCG	GAAGAAGAAG	CCTGACTACC	TGCCCTATGC	120
CGAGGACGAG	AGCGTGGACG	ACCTGGCGCA	GCAAAAACCT	CGCTCTATCC	TGTCCAAGTA	180
TGACGAAAAA	CTTGAAGGGG	AGCGGCCACA	TTCCTTCCGC	TTGGAGCAGG	GCGGCACGGC	240
TGATGGCCTG	CGGGAGCGGG	AGCTGGAGGA	GATCCGGGCC	AAGCTGCGGC	TGCAGGCTCA	300
GTCCCTGAGC	ACAGTGGGGC	CCCGGCTGGC	CTCCGAATAC	CTCACGCCTG	AGGAGATGGT	360
GACCTTTAAA	AAGACCAAGC	GGAGGGTGAA	GAAAATCCGC	AAGAAGGAGA	AGGAGGTAGT	420
AGTGCGGGCA	GATGACTTGC	TGCCTCTCGG	GGACCAGACT	CAGGATGGGG	ACTTTGGTTC	480
CAGACTGCGG	GGACGGGGTC	GCCGCCGAGT	GTCCGAAGTG	GAGGAGGAGA	AGGAGCCTGT	540
GCCTCAGCCC	CTGCCGTCGG	ACGACACCCG	AGTGGAGAAC	ATGGACATCA	GCACACTCTC	600
GAG						603

## (2) INFORMATION FOR SEQ ID NO:963:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 415 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:963:

GAATTCGGCC	TTCATGGCCT	ACAACAGCGT	TAGGTTTTTT	TTTTNGTTNG	TNGTTNGTT	60
TNGTTTTTTT	CCAACCCTCT	TTCGGATGGA	CGGGGAAAGA	GAGAAAGAAA	AANCAGGGGA	120
AAATCNACAA	AATGTGCGAT	GCAAAGAGTC	GATTTTCGCG	GGGTTTGTC	ACTTCGCCAC	180
TGCCGCACGC	GAATCGACGT	CGTCACGTGA	CGGTCTGCCT	CCGCCCTTAT	TAACTCTCAG	240
CCCAGCGGCG	GTTTCCAGGA	CCTCAGACTT	TTTGCCGAGG	CGGCAGTCCC	TAGACGAAGC	300
GAAGGAGGCG	GCGCCTGCCC	CGCCCAACAAG	AGCTGCCGCG	CGCGGGTGTT	ATAGCTCCAC	360
CCCATCTGCA	AAGGAAGGGG	GAGCGGAAAG	AGCGGGATCT	AGCGGGGAAC	TCGAG	415

## (2) INFORMATION FOR SEQ ID NO:964:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 241 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:964:

GAATTCGGCC	TTCATGGCCT	AGCGGGTCTT	CAGACAACTG	GAAAAGGTGA	GAGAGGAGAT	60
CAGGGCGCAG	AGCCCCGTGG	AGGCTGAGTT	TCCATATGGG	CAACTGAGCA	CATCCTGCCA	120
CTCCCACCTC	GTGCCTCAGA	ATNGACACCA	GGCTACTCAT	CTGGAGGTGA	CCAAGCAGCC	180
AACCAATCGG	GTCCCCTGGA	GGTCTCAAA	TGCCTCCCCA	TACCTTGTTT	CAGACCTCGA	240
G						241

## (2) INFORMATION FOR SEQ ID NO:965:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 485 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:965:

GAATTAATAG	CCTGCAGGTT	AATTACTCCC	TGAAGGGTAT	TGTGAAAAG	TATAACAAGA	60
TCAAGATCTC	TCCCAAAATG	CCAGTATGCA	AAGGACACTT	GGGGCAGCCT	CTCAACATTT	120
TCTGCCTGAC	TGATATGCAG	CTGATTTGTG	GGATCTGTGC	TACTCGTGGG	GAGCACACCA	180
AACATGTCTT	CTGTTCTATT	GAAGATGCCT	ATGCTCAGGA	AAGGGATGCC	TTTGAGTCCC	240
TCTTCCAGAG	CTTTGAGACC	TGGCGTCGGG	GAGATGCTCT	TTCTCGCTTG	GATACCTTGG	300
AAACTAGTAA	GAGGAAATCC	CTACAGTTAC	TGACTAAAGA	TTCAAGATAA	GTGAAGGAAT	360
TTTTTGAGAA	GTTACAACAC	ACACTGGATC	AAAAGAAGAA	TGAAATTCTG	TCTGACTTTG	420
AGACCATGAA	ACTTGCTGTT	ATGCAAGCAT	ATGACCCAGA	GATCAACAAA	CTCAACACGC	480
TCGAG						485

## (2) INFORMATION FOR SEQ ID NO:966:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 330 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:966:

GAATTCGGCC	TTCATGGCCT	AACGGCTCCC	TCACTTGTGA	ATTAAAGTCA	GACACTGCCG	60
TAAGGTTCTT	CTGGTTCCTG	CTTTGTGGAG	AAAGCTTTCA	GCAGCAATAT	CTGGGATCAC	120
TGGTGTATTA	AATGTCAGGC	CTCGCATCAT	TATTCTGCCC	TGAGCTGATG	GTAAACCGGG	180
CACCCAGCCT	TTTAGCTTTC	ATCCAGCACG	AGGGAAGTTG	CCTTCAGATG	TGACACGTAC	240
AAGTCAAAAA	AGCTCAGAGT	CAGCTCCAAC	GTCTATTGGA	TCCCACTCTA	TCGCCTTTAA	300
AAAGGAAAAG	AAAATCGAAA	CGAACTCGAG				330

## (2) INFORMATION FOR SEQ ID NO:967:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 344 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA



## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:967:

GAATTCGGCC	TTCATGGCCT	AGGGTCGCAG	ACTCAAATGC	CCACAGGGGC	CAGGTTAGGT	60
TAGCGGCTGA	AGCAGTCTGG	GGAGAGGCAA	AAAGCAATGG	CAGGGAGGTG	GGACAGAGGA	120
ATGTGGGCCC	CAAACATATG	GGGCAGCTGC	TACTCAGTGC	CAGCTGTTTC	TCGCCATGGG	180
GGGAAGCGGG	ACCAGAGCCG	CCGGGTCTTC	GGCTTTTTC	AGAGGACGCA	TAACCTCCGA	240
TTGTTATTTC	AACTGTCTTC	ACTTTGGTAA	GACTCTGTGA	CGGTGACAGT	GAAGGAGGCC	300
GACTCATCGT	CAATTTTACA	CAAGTACTCG	CCGGAGTCCT	CGAG		344

## (2) INFORMATION FOR SEQ ID NO:968:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 531 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:968:

GAATTCGGCC	TTCATGGCCT	AGGATGCAGC	CGAAAAGGAT	CGCAAGCTTC	AGGAGAAAGA	60
GAAGCAAATC	GAAGAGCTGA	AGAGGAAACT	GGAACAAGAG	CAGAAGCTCG	TGGAAGTGCT	120
GAAAATGCAA	CTTGAGGTTG	AAAAACGAGG	GCAGCAGCAG	CGCCCCCTGG	AAGCCCAGCC	180
CAGTGCCCCA	GGTCATTCTG	TCAAGTCAGA	TCAGAAGCAC	GGCAGCCTTG	GCTCCTCCAT	240
CAAAGATGAG	GCCTCACTCC	CTGACTGCTC	CAGCTCCAGG	CAGCCCCATCC	CAGTAGCCAG	300
CCACGCTGTA	GGCCAGCCCG	TCTCTACAGG	TGGCCAGACC	CTTGTTGCCA	AAAAGGCTGT	360
AGTTATCAAG	CAAGAGGTCC	CTGTGGGCCA	GGCAGAGCAG	CAGAGTGTCG	TCTCGCAGTT	420
TTATGTGAGT	TCCCAGGGAC	AGCCACCGCC	TGCTGTTGTT	GCTCAGCCCC	AGGCTTTACT	480
GACCACGCAG	ACTGCTCAGC	TGCTGCTCCC	AGTGTCCATC	CAGGGCTCGA	G	531

## (2) INFORMATION FOR SEQ ID NO:969:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 388 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:969:

GTGCCTCGAG	AAACTGCCTA	TTCAGAAACA	CAGAAACACC	GAGACCTCAA	AATCCCCTGA	60
GAAGGACGTT	CCCATGGTAG	AAAAGAAGAG	CAAGAAACCC	AAGAAGAAAG	AGAAAAAACA	120
CAAAGAGAAA	GAGAGAGACA	AGGAGAAGAA	GAAGGAGAAG	GAGAAGAAGG	CTGAGGACCT	180
GGACTTCTGG	CTGTCTACCA	CCCCACCGCC	TGCCCCCGCC	CCCGCCCCCG	CCCCCGTTCC	240
ATCCACGGGG	GAGCTCAGTG	TGAACACTGT	CACTACCCCG	AAGGACGAGT	GTGAGGACGC	300
CAAGACGGAG	GCGCAGGGCG	AGGAGGACGA	TGCCGAGGGG	CAAGACCAGG	ACAAGAAATC	360
TCCCAAGCCT	AAGAACAAGA	AGCTCGAG				388

## (2) INFORMATION FOR SEQ ID NO:970:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 365 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:970:

```

GAATTCGGCC TTCATGGCCT AGCTTACACT GGGCCAAGTG CTTGCCAAGG ATTCTCATGT      60
GACATTTCTT TCAGTCCTGC CGAGGACTTT ATGAGGGAAG CACCCTGTTT TACAGAGGGA      120
AGGGGGCCTA TGGGGTCTAC AGCAGTGAGA GCCTAGAGTT CAGTCTGCGT CTCTCTGATT      180
CCAAAGCCTG TGATTGTGAC TTCCATACTC TCCCTAAGAC ACATTCATAC ATTCAACTGA      240
ATATTTATTG AGCACCTACT GTGTGCTAGG GATAGAGCAG TAAATGAATC AGGCAAAAAT      300
TATTTACATT CCACTGGGGC TGACAAACCC AAACAAGGAA GAGGTGTAGT GCTTCGGGTC      360
TCGAG
365

```

(2) INFORMATION FOR SEQ ID NO:971:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 332 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:971:

```

GCAAAAGTAA TATGATTTGT TAAAATACT CAGTCAACAG GTATTCCTG AAAATATTTT      60
CCATAGAAAG TAGAATATGG TTCTCCCGAA TAAAAACTGA TCCATTTTAC CTTTTCTTTT      120
CCCTTTTGTT TNNGGTATTT TTTTTCTTT TTTCTTTNN GCTTTTTTCC TTAACTTTTC      180
CAGCCAAAGG CTTCTATGAT CTTGATGCTT TAAATGAAGC TGCTGGACA AGTGCCACA      240
GCCAGTTGGT TCCCTGTAAT GTTTGTGGGC GTACCTTCCT GCCAGACAGA CTGATTGTTC      300
ACCAACGATC TTGTAAACCC AAAGCTCTCG AG
332

```

(2) INFORMATION FOR SEQ ID NO:972:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 273 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:972:

```

GCGCCCTCAC CCCTCCAATC CCCCCTCTGA CCCCCTCTTC CTCACATGGG GTCGGGGGCC      60
TGGGAGTTCA TTCTGGACCA GCCCACCTAT CTCATTTCCT TTTTATACAG ACTTTGAGAC      120
TTGCCATCAG CACAGCACAC AGCAGCACCC TTCCCCTGAG GCCGGTGGGG AGGGGACAAG      180
TGTCAGCAGG ATTGGCGTGT GGGAAAGCTC TTGAGCTGGG CACTGGCCCC CCGGACGAGG      240
TGGCTGTGTG TTCACACACA CACACACCTC GAG
273

```

(2) INFORMATION FOR SEQ ID NO:973:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 274 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:973:

GAATTCGGCC	TTCATGGCCT	ACTCTGTCTC	AAAAAAAAAT	AGTAAGTTGT	GTAAAGAAAA	60
ATATTAATTA	TATAATATGG	CAGTTCCTAT	GAGAGTGTGG	CAAAAATCAA	GAGGGCTTGG	120
AAGTTTTTTC	TTTGCTCTTG	CAACTGGCTG	GATGCAGTTC	ATATATTTTT	CAACCAGTAG	180
GTGGCACCCC	AACCTAATTT	TTTGCACTTG	TAACTGGTG	GCAGAAGGGG	CAGGACTGAT	240
GGCTTGGGCA	AGACTGTTAT	GCCAAGTTCT	CGAG			274

## (2) INFORMATION FOR SEQ ID NO:974:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 145 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:974:

GAATTCGGCC	TTCATGGCCT	AGTGAGATAG	TACCAGATTT	AGAATATAAT	TTTATCTTTC	60
TTTAGCAACA	AGCCCTAACA	ATATCCAAAC	TAAATAAAAT	CATTACATGA	ATTTACTTTT	120
TACAATCATT	CTCCTAAGGC	TCGAG				145

## (2) INFORMATION FOR SEQ ID NO:975:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 242 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:975:

GAATTCGGCC	TTCATGGCCT	AGGAAATAAC	AGTTATTTCA	TCATAAAACA	GTCCCTTCAA	60
ACACACAATT	GTTCTGCTGA	AGAGTTGTCA	TCAACAATCC	AATGCTCACC	TATTCAGTTG	120
CTCTGTGGTC	AGTGTGGCTG	CATAGCAGTG	GATTCCATGA	AAGGAGTCAT	TTTAGTGATG	180
AGCTGCCAGT	CCATTCCCAG	GCCAGGCTGT	CGTGGCCAT	CCATTCAGTC	GATCATCTCG	240
AG						242

## (2) INFORMATION FOR SEQ ID NO:976:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 116 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:976:

CATGTGCACA	CTCGCACATG	CACATATGGG	CACGTGGGAA	GACGGGAGAA	GTACTGTCAA	60
AGTATAAGGA	ACTGCAGAGG	TTGGGATTTA	CTGGAAGGGA	AGGGAGCACA	CTCGAG	116

## (2) INFORMATION FOR SEQ ID NO:977:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 461 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:977:

```
GAATTCGGCC TTCATGGCCT AGCATGGCAA CAGATATGTG GAGCATTGGA GTGTTAACAT    60
ATGTCATGCT TACAGGAATA TCACCTTTCT TAGGCAATGA TAAACAAGAA ACATTCTTAA    120
ACATCTCACA GATGAATTTA AGTTATTCTG AGGAAGAATT TGATGTTTTG TCTGAGTCGG    180
CTGTTGATTT CATCAGGACA CTTTGTAGTTA AGAAACCTGA AGATCGAGCC ACTGCTGAAG    240
AATGTCTAAA GCACCCCTGG TTGACACAGA GCAGTATTCA AGAGCCTTCT TTCAGGATGG    300
AAAAGGCACT AGAAGAAGCA AATGCCCTCC AAGAAGGTCA TTCTGTGCCT GAAATTAATT    360
CGGATACCGA CAAATCAGAA ACCGAGGAAT CCATTGTAAC CGAAGAGTTA ATTGTAGTTA    420
CTTCATATAC TCTAGGACAA TGCAGACAGT CAGAACTCGA G          461
```

(2) INFORMATION FOR SEQ ID NO:978:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 108 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:978:

```
GAATTCGGCC AAAGAGGCCT AATGATGATG AATAAGTTGG TTCTAGCGCA GTTTTTTTTT    60
TTTCTGTGCT ATAAAGCATT TAACCCCTCT GTACACAACCT CACTCGAG          108
```

(2) INFORMATION FOR SEQ ID NO:979:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 505 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:979:

```
GATGGCGTCG GGCAGCGGGA CAAAAAATT GGACTTTCGC CGAAAGTGGG ACAAAGATGA    60
ATATGAGAAA CTCCCCGAGA AGAGGCTCAC GGAAGAGAGA GAAAAGAAAG ATGGAAAACC    120
AGTGCAGCCT GTCAAGCGAG AGCTTTTACG GCATAGGGAC TACAAGGTGG ACTTGAATC    180
CAAGCTTGGG AAGACAATTG TCATTACCAA GACAACCCCT CAATCTGAGA TGGGAGGATA    240
TACTGCAAT GTCTGTGACT GTGTGGTGAA GGAATCCATC AACTTTCTGG ATCACATTAA    300
TGGAAAGAAA CATCAGAGAA ACCTGGGCAT GTCTATGCGT GTGGAACGTT CCACCCTGGA    360
TCAGGTGAAG AAACGTTTTG AGGTCAACAA GAAGAAGATG GAAGAGAAGC AGAAGGATTA    420
TGATTTTGAG GAAAGGATGA AGGAGCTCAG AGAAGAGGAG GAAAAGGCCA AAGCGTACAA    480
GAAAGAGAAA CAGAAGGAGC TCGAG          505
```

(2) INFORMATION FOR SEQ ID NO:980:

- (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 314 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:980:

```

CGAGGGACAT GAGGCTGAGC TGGTTCCAGG TCCTGACAGT ACTGTCCATC TGCCTGAGCG      60
CCGTGGCCAC GGCCACGGGG GCCGAGGGCA AAAGGAAGCT GCAGATCGGG GTCAAGAAGC      120
GGGTGGACCA CTGTCCCATC AAATCGCGCA AAGGGGATNT CCTGCACATG CACTACACGG      180
GGAAGCTGGA AGATGGGACA GAGTTTGACA GCAGCCTGCC CCAGAACCAG CCCTTTGTCT      240
TCTCCCTTGG CACAGGCCAG GTCATCAAGG GCTGGGACCA GGGGCTGCTG GGGATGTGTG      300
AGGGGGACCT CGAG                                     314

```

(2) INFORMATION FOR SEQ ID NO:981:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 379 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:981:

```

GAATTCGGGC TTCATGGGNT ACTCATTGCT ACATTGCTAG TTGACCCGCA GTTATATTTT      60
CTTTTTTCT TTTTAATAAA AGGCAAGAGA AACAAATCCGT TTTTGCCTTT TCCTACCACA      120
TCTTTGACTT TTCTGATTCC TGCAAGTTTA AGTTAAAAAC ATCCTACCTT CAAGCTACAA      180
AATGCAGCAC ATCCAGGAC ATCCCTCACC TGCTTTGCTT GTTTATTAGA CACAAGTGGC      240
TTTGTTCAGA AAGTTACTGG GAACCGCTAA GGATAGTCAA GGTGGAGAAC ACAGGGTGGG      300
GTCTCAGAGT CTGAGGCCTT GGTTCAGGTT CCTGATAACA TTAAATATAG AAAATACACA      360
GCACAAGGCC AAACTCGAG                                     379

```

(2) INFORMATION FOR SEQ ID NO:982:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 362 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:982:

```

GAATTCGGCC TTCATGGCCT AGAAGATGGT AAGGTTCCGA TCTTTCGGGT GATGGGAGTT      60
AAGTGTGAAC AGGAACTGGG ATTTAAGGGC CACACTCAG GGGTATCCCA GGTCTGCTTT      120
CTCCCAGAAT CCTATTGCT GCTTACTGGA GGGAATGATG GGAAGATCAC GTTGTGGGAT      180
GCAAAACAGT AAGTTGAGAA AAAACAGAAG AGTCCACAA AACGTACCCA CAGGAAGAAA      240
CCTAAAAGAG GAACTTGAC CAAAGAGGGT GGAAATACTA ACGCTTCAGT AACAGATGAG      300
GAAGAACATG GCAACATTTT ACCAAAGCTA AATATTGAAC ATGGAGAAAA AGTGAACTCG      360
AG                                     362

```

(2) INFORMATION FOR SEQ ID NO:983:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 574 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:983:

```
GAATTCGGCC TTCATGGCCT AGGCCACTGA TATTTTCTA AGTTAGCAAG GCTCACTTGC      60
TTGCTTTCTT GCCTCCCTTG CCTCCATCCC TCTCCCTTCC TACCTTCTCT ATTTACCTAT      120
TTCTCTCCCT CCCTCTCTTC TCCTCTCTTT TTTTTCCTCC CGCATATGCA GCTTTTGTGAT      180
TGTACTTGAT TTTATAGAGA CTGCACAGTT CCAGCAAGAT TGGGAGTCAG GCATGGAGCA      240
GGCATCTCAG GCTACCAGAA AGAATTGGTC ACCTAGACTT TCAGTCAGGC ATCCTCGTTT      300
GCATTGTCTT GTAAGTCAAT TAGTTGATAA ATAGTTCTCC CTTTCATCCCT TAAGTTTGT      360
TTTTGTTTTT GTTTTAAATA TAGGTAAGTG GGAATCTACC TAAAATTTTG CATCATACTT      420
ATGGGTAATA TCTTTTTCAT ATATTATTTA TCAAAGTATG AAGTIGAGTA TTTTGCTGT      480
ACCATTTCAA TTCTGCATTA TAGTAGTTCA TTGTATAACT GAAAGAAATG ATTTCTTCAT      540
AAGTGACATT AAATATGAAC ATTCATCTCT CGAG                                574
```

(2) INFORMATION FOR SEQ ID NO:984:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 274 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:984:

```
GAATTCGGCC TTCATGGCCT ACGATTGAAT TCTAGACCTG CCCCCTCCCT CCATGCCTCA      60
TCCCCCGCCC CCTCCAGTCA TGCCGAGCA GGTTAATTAT CAGTACCCTC CGGGCTATTC      120
TCACCACAAC TTCCACCTC CCAGTTTAA TAGTTTCCAG AACAAACCTA GTTCTTTCCT      180
GCCCAGTGCT AATAACAGCA GTAGTCCTCA TTTCAGACAT CTCCTCCAT ACCCACTCCC      240
AAAGGCTCCC AGTGAGAGAA AGTCCCCACT CGAG                                274
```

(2) INFORMATION FOR SEQ ID NO:985:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 366 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:985:

```
GAATTCGGCC TTCATGGCCT AGATAAGGAG ACTTCAGAAG AGAAGCCGCC AGCTGAGGGA      60
AGTGAGGACC CTAAGAAGCC ACCCCGCCCT CAGGAGGGAA CAAGATCTAG CCAGCGAGAT      120
CAGATACTCT ATCTCTTTGG GAGAACTGGC CGAGAAAAAG AGGAATGTT TAGGAGATT      180
ATTCTGGCAT CTAAGCTAAA GTCGGAAATC AAGAAGTCAT CGGGTGCTC TGGAGGTAAA      240
CCAGGGCTTT TGCCTGCACA CAGCAGACAC AACAGTCCGT CCGGGCACCT GACCCACAGC      300
CGCAGCAGCA GCAAAGGCAG TGTGGAGGAG ATCATGTCAC AGCCAAAGCA GAGGGAGCTA      360
CTCGAG                                366
```

(2) INFORMATION FOR SEQ ID NO:986:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 451 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:986:

```

GAATTCGGCC TTCATGGCCT ACTCTCTTCC AACCAAAAGT CTTAATATGG GAATATCCCT      60
CACCACGATC CTAATACTGT CAGTAGCTGT CCTGCTGTCC ACAGCAGCCC CTCCGAGCTG      120
CCGTGAGTGT TATCAGTCTT TGCACCTACAG AGGGGAGATG CAACAATACT TTACTTACCA      180
TACTCATATA GAAAGATCCT GTTATGGAAG CTTAATCGAG GAATGTGTTG AATCAGGAAA      240
GAGTTATTAT AAAGTAAAGA ATCTAGGAGT ATGTGGCAGT CGTAATGGGG CTATTTGCCC      300
CAGAGGGAAG CAGTGGCTTT GCTTCACCAA AATTGGACAA TGGGGAGTAA ACACTCAGGT      360
GCTTGAGGAC ATAAAGAGAG AACAGATTAT AGCCAAAGCC AAAGCCTCAA AACCAACAAC      420
TCCCCCTGAA AATCGCCCGC AGCATCTCGA G                                     451

```

## (2) INFORMATION FOR SEQ ID NO:987:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 334 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:987:

```

GAATTCGGCC TTCATGGCCT AGAGAACTG AGCAAAAATA GCTGCCAAGA GAAGAGGGAA      60
CGAGTGCTCG GGGCGGGTTG GAGGCAGATA ACGAGAAGGC AAGAAAATTC TTTGTCTTTG      120
GCTCCTGCTG TCAGCTCAGA GGGGTCATCT TGAGATGAAA AAGAAAAGTC CCCAGCCTTG      180
GGGAAGGAAA GGAGAGGGTG CCCCACGCAG ATATGAAGCA AAGCCATTGG CAAGATATTC      240
TCTCTAAGGA GAGCAGCGGT CTTGCCAAG GCATCTTCTA TTGTGTATTG CCGTCATAAA      300
CCCTACCCTT CCATGTAGAT AGCCAGGACT CGAG                                     334

```

## (2) INFORMATION FOR SEQ ID NO:988:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 509 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:988:

```

GAATTCGGCC TTCATGGCCT AAGAGAAACA AAAATGATTT TGCTTTCCAA GCTTGGTTTG      60
TGGCGTCTCC CTCGAGAGC CCTTCTCGTT TCTTTTTTAA ACTAATCACC ATATTGTAAA      120
TTTCAGGGTT TTTTTTTTGT TTTAAGCTGA CTCTTTGCTC TAATTTTGA AAAAAAGAAA      180
TGTGAAGGGT CAACTCCAAC GTATGTGGTT ATCTGTGAAA GTTGACAGC GTGGCTTTTC      240
CTAAACTGGT GTTTTTCCCC CGCATTTGGT GGATTTTAT TATTATTCAA AAACAAAATG      300
AAAAGGTTAT TTACTTTTTT TTTCCTGAAA TGCTGACAA ATGTGATATC TTAATATCTG      360
TAATTCCTAG TGAAAGTTAT GGTATAGTAT AGGTGAAGCT GTAGTGTTTA TATCAATAGA      420
TGTGAATTCA AATGAGCAAT CTAATAATTA TTTACTATTC AATTATGTTA ATTTTCTTCT      480
CTTTGTCTCC CATTGTATCT GCACTCGAG                                     509

```

## (2) INFORMATION FOR SEQ ID NO:989:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 409 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:989:

```

GAATTCGGCC TTCATGGCCT AGGCTTGTGG GCAGGGCCCC TGCAGGTCAT GGAGCCGGTA      60
GCATCTCAGA GCTGGACAGA GGAGGTAGGC TGGGAGCAGG CCCGGTTGGG GACCACTGGC      120
CCCTGCACAG GAGCCAGAGG GCCTGGGCAG CTGTCTGTCC AGAAAGCATG CAAGACCCCG      180
TGCCACCCCG GCACACAGGG CTGTCGTGTC TAGAAAGAGA TCTCCTGGGG TCACGGGCAG      240
GCAAAGCTGA TTGATTTTGG CCGTGAAGTT TGACCTTGTG ATGGAAACCG AGCTCCCAGG      300
GAGTGAGACA AACTGCCTCC CCGTGTGAGT GGCCAATAAA CCTGACTTGG TTTTACAGCC      360
CCGAGAAATT GCTCACTAAT AGCCAGACAG ATGCTCCCCC TGCCTCGAG      409

```

## (2) INFORMATION FOR SEQ ID NO:990:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 210 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:990:

```

GAATTCGGCC TCATGGCCTA CCCAAATCTG AAGTCTTTGG ATATGTTACT GCTGAAGTTT      60
CTATCACTTC TCACTCCTGG TTCCTTGTTT CCCTGTATGC TTTTTTTTTT TTCCATGAG      120
TTCACTTTTT TAAATTATAG TTCTTCAAGG CCTAGGATGC AGGTGTGTTT TTCCATAAAG      180
GGCTATTTTG CCTCTGCCGA GGTCTCGAG      210

```

## (2) INFORMATION FOR SEQ ID NO:991:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 447 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:991:

```

GAATTCGGCC TTCATGGCCT AGTAGATAGT ACAAATTC AAGATATCA AAGTGTGTTA      60
AGTTTACCTT TCCACCCACT TTCTCATTTT TGTCTCCCCC AGTTCCTTTT GCATTATTCC      120
ACGTATATTG TGTGCATATA TACATTCATA TACATTATC TGTATGTGTC AGCTTCTTTT      180
TACACAAATG ATACATAAAC ACTGTTCTGG ACCTTCCAAC TTAGAATTAC TGCAACAGT      240
GTCGTGATGA ATTACCTAAT TCTGTGTATG TGTGTATATT GGTAGAAAAA ATTCCCGGAA      300
GTAGAATTGC TAGAACAAAG ATTTATGCAT TTTAAATATT CCTTTATTAT AAAACTAATG      360
AAAGTAAACA TGTTGGCTAT GACCACGTAT GCTCTATGCT CAGTTTTTCT AGAGTTGTGT      420
ATGCTTAATA TAGGAGCCTG CCTCGAG      447

```

## (2) INFORMATION FOR SEQ ID NO:992:



## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 303 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:992:

```

GAATTCGGCC TTCATGGCCT AGCCCATTTGT TGTTTATTTT GAATTAATTT CAAGCTTACA      60
GAAGAATTAT AAGAATTATA CAAAGAGCCC TTGTATAGCC TTCATCCAGA TTCCTCATT      120
ATAGTTATCT CCCCCACACA CGTAATGCAC AGACACTGCA TGCATTTTCC TTTTCTTTT      180
TCTCTTCTTT CTTTTCTTTT TTCTCTCTTT CCCTTTCTCT TCTCCCTCCC CTCCCCACCC      240
CTCCCTCCC TTCCTCTCCC TTCCCTCCTT CCTACTTCAG CCTCTAGAAT AACTAGACTC      300
GAG

```

## (2) INFORMATION FOR SEQ ID NO:993:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 359 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:993:

```

GAATTCGGCC TTCATGGCCT AGGATTGTTT AGGGTAACTT GAAACTGAG TTAAATGAGA      60
AAGGTAGAAA AAATTCGTAC TTTTCTCTCT CCCCACAAAA AATAAAACA GTAAATCTT      120
TACCAACTGA AAAAGCTGTT GAAATTTCTT GTATGTTAAA AAAATGAGCT TTGCAGTAAC      180
TCTTAAATC ACCTAGCAAA ATAGGAACTA TAATGTGCAT CTTTCCTTCA CTAAACATT      240
TATTGCATCT CTTCTTGATG CTGATGATTG AGGACACACA TTCTGCTTTC CTGGGGCTTA      300
TGGTTTTATA TAAAACCAA AGCAAAGTAG AAAGTATACC TCCTACCAAG GGGCTCGAG      359

```

## (2) INFORMATION FOR SEQ ID NO:994:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 406 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:994:

```

GAATTCGGCC TTCGGCCTTC ATGGCCTAGA GGAGGACCAA GGCTTCAAAG GCCCCTGCCC      60
GCGCGTCCTG CAGGTTCCCA TTGTCCGTGT TAATAGCCTC AGATGGGCAT CAGTTGCCCT      120
GATGGGCTTG GGCTCCACGC CCGGGCTTGC ATGTTTGCCA AAATTACTCA AGAGCATTT      180
TTTTTTTTTT CTTTGAGACT CCGTCTCAA AAAAATAAAA AAAGAGATCC TCAGCTGTTG      240
TTTCTTGAAT CAGATATTTG GATCACTCTA GCATCCAATC ATGCAGCTCC TAAATATGCT      300
CCTAAATCAT GCAGGTCCAA TCACGCACCT GTTTACGGT TTATCAATT GTGCTCATCC      360
TGAATAAAT AAACAAATCC ATGAGCCAAC TGCAGCACCA CTCGAG

```

## (2) INFORMATION FOR SEQ ID NO:995:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 603 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:995:

```
GAATTCGGCC TTCATGGCCT ACCATCTTGG AACCTCCTCC CATGATTGCC TTATTATTTT    60
AAATACATTA ATGTAGATCA ATGAAGAATA AGAAAATAAG CAATTTTATT TTACCTTAAT    120
TTATTCTGTT TCTGATGCTC TTTGTCTCTC TATGTAGGTC TGACTTTTGT ACCTACATTA    180
TTTTCTTTCC CTCCTAGGAA TTTTAAAAG CATTCTTGT AAGGCAGGGC TACTGAAAAC    240
AAATTCCTC AATATTTGCT TGTCTACAAA AGTCTTTATT TCTCCTTAC CTTTAAAGGG    300
AAATTCACA ACCTACAGAA TTCTAGGTTG GTGGGTTTTT TCCCCCTCA TCCCTTAAGT    360
ATTTAATTCC TCTCTTCTTG CTTGCATGGT TTGTAAGGAA GAGTCAGATG TAATTTTAT    420
CTTTGCTTCT GTATGGGTAG GGTGCTTTTT CTTCTAGATT TTTTTCAG AGTTTTTTTC    480
TTTATCTTTG ATTTTCTGTA CTTCAAATAT ATTATGCCCA GGTATAGATT GTTTTTGT    540
CTTGTTTTGT TTTCAATTGG CATTGTCTCT GCTTGGTGTT CTCTGAGCTT CCCGGATCTC    600
GAG                                                                 603
```

(2) INFORMATION FOR SEQ ID NO:996:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 461 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:996:

```
GAATTCGGCC TTCATGGCCT ACAGAGAATG AAACATGGAG CTCACATTCT GATGGGGGAG    60
AAATAAAAT CATATCAGAT GGTGATGAGC TTTTCGGTTT TCTATTTCTA TTTATGAAGA    120
ATAAAATAAG GTAATAGAGA TAATGTGATG AAAATTCTAA CATCTCTAC CTTTCCTGAA    180
TTCTTAATCT ATACCTTCTG TTCTTACATT TTCTACTTAA TTTTATTTAA TACAACCTGT    240
AGCTAAACTT TTATTTTCT TTTACTCCTG ATTCTTAACC CCTATCCATG CTAATTTTGT    300
CCTTCACTAT TCCACAAAAC TTACCCACTG TCGTATTATT ATCTTCTATT AAAAGCCAGT    360
ATTCTCTTTT CAGTTTTTAT CCTTCTTGAT CTACACTGAA CATGATTGCC TTTCTCTCTC    420
TTATATCACT TGCTGCTATC TGCAGTCCAA CTAGCCTCGA G                                                                 461
```

(2) INFORMATION FOR SEQ ID NO:997:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 470 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:997:

```
GAATTCGGCC TTCATGGCCT AGTGATTGG GTACAGACAC AGCCAAACCA TATCATTACA    60
GATATAAATC TCTGAGTAAA TCCGGTGTTT GATTCTTCT AGCTTTTGT CTTATGAGTA    120
GAGGTCTTTC TCCTCTACTC CAAGAATTTT CATAGACACA CCACTTAGTA CTTACGTTTA    180
CCACCATGT TATTATTTT AAGAATGTAC TACTTTATAT TTTTAAACAT GAAGGACTAG    240
CTCAAAATTT TGTAGCTTCC CCCCCGCC CAATCTTTT TTTTTTTGT ACTCCTTGT    300
```

GATGGGTAGT	GGTTTAAAGA	CAGCAAAACA	TGACCTTAAC	CAGAACACTA	ACTAGCTTTA	360
TACATAATTC	AGCCTATGAA	CATGTATCTG	GCAAGAGAAA	TTCTTGATCT	GTGGTTCGGC	420
AGATCCATGA	GAGCTGCTTC	TCCGGATTTT	CTTTGCTGGC	CCCTCTCGAG		470

## (2) INFORMATION FOR SEQ ID NO:998:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 350 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:998:

TTTAAAGAGA	GTTCGTTAT	TTTCTCCAAA	AGCATTGT	GAGTTGGTCA	TTTTGACAGT	60
TAAGTGTCCG	TTTTTACCTG	CATTCCTAGG	TGCTAAACT	TACAAGTGTA	TCTCTGAAC	120
ACAGGCATTG	ATCCTCTACC	AATGAATAAT	TGAGAGAGGT	AGGAATGACT	GATTTTCTA	180
GTTGTAGTTT	GAAAGATTAA	TTTGATGAAT	TGGAAAGTAT	GGAAACTATT	CTGTTACTAT	240
TGCAAAGAAA	GATTTATTTT	TTTAAAAAAT	TTATTTTAT	TTATTTTATT	TTATTTTATT	300
GGGCAGGTCT	GGCTCTGTCA	CCCAGGCTGG	AGTGCAGTGG	CAGACTCGAG		350

## (2) INFORMATION FOR SEQ ID NO:999:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 266 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:999:

GGAGTATTGT	TACAATCACA	TTTGAAGTAC	CAGGAAATGC	AAAGGAAGAA	CATCTTAATA	60
TGTTTTATTCA	GAATCTCCTG	TGGGAAAAGA	ATGTGAGAAA	CAAGGACAAT	CACTGCATGG	120
AGGTCAATAAG	GCTGAAGGGA	TTGGTGTCAA	TCAAAGACAA	ATCACAACAA	GTGATTGTCC	180
AGGGTGTCCA	TGAGCTCTAT	GATCTGGAGG	AGACTCCAGT	GAGCTGGAAG	GATGACACTG	240
AGAGAACAAA	TCCATTGGTC	CTCGAG				266

## (2) INFORMATION FOR SEQ ID NO:1000:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 309 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1000:

GTAATGGGAG	ATGGACATCC	ACTGTTTCAT	AAGAAGAAGG	GGAACAGAAA	GAAGCTAGTA	60
GAGCTGGAGG	TGGAGTGCAT	GGAAGAGCCT	AATCACCTTG	ATGTGGACCT	GGAGACCCGG	120
ATCCCTGTCA	TCAATAAGGT	GGATGGTACT	TTGCTGGTGG	GTGAGGATGC	CCCTCGCCGG	180
GCTGAAGTGG	AGATGTGGTT	ACAGGGTCAT	CCAGAGTTTG	CTGTTGATCC	CCGATTTCTA	240
GCGTATATGG	AGGATCGCAG	AAAACAGAAG	TGGCAAAGAT	GTAAAAAAA	TAATAAGGCA	300
GGACTCGAG						309

## (2) INFORMATION FOR SEQ ID NO:1001:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 306 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1001:

```

CACGTCAGGA GAATAGAATG GAAAATTTTT ATTTCAACAG AAAGAAGTTA ATTTAGAAAA      60
TTAGTTTAAA ATACATTGGA AAACCTTAAAG AGCAAAAAGC ATTTGTAAAC AAACAAAAAA      120
TAAACCAAAA AAACCCTGAT GAGGTTACTA CTAATAGTAA CTGTAGGAGG CATCTACCTC      180
CCTAGATTGG GGAAAGAAGT AGTGGTTGAA TTATCAGAAC CTAGAAGCAC AGAACAGGGG      240
CCCCTCAGAA TGTGTTCTCA GACTCCTGAG GGAAGGATGC TACCCAGCTA CAGCTGGTTC      300
CTCGAG                                         306

```

## (2) INFORMATION FOR SEQ ID NO:1002:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 541 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1002:

```

GAATTCGGCC TTCATGGCCT ACACCCTGCT AATTTTGTGA TTTT TTTT TAAAGGCTGG      60
GTCTCACTAT GTTGCCCAAG CAGGGTCTCG CTATGTTGCC CAAGTGGGTC TCGAACTCCT      120
GGGTTCAGGC AATCCTGCCT CGGCCTCCCA AAGGGCTGGG ATTACATGCA TGAGCCATCA      180
CATCTGGCCC CCACCCATCT TAAAAGTCAG AAATAAAAGC CAGAGCCCCT CCTTGACCTC      240
CTGGCCCCCT CCGCTTTATC ACCCCACCTC TCTGCCTGTC TTTATTGCAA AACCCCCAGA      300
AGGTATATCAG GCTCATGGTC TTCCCTCCTG TCCACACTGC CCCAACTACA CAATGAGATG      360
CCCCCATTC AACTCCCCAG CCTCCTCTGC TGGCGTCTCC TCCTTCCTAA TCTCTGAACA      420
TTGTCCCATC CAAGGGCTCA GTCCAGGTC CGTTCACCCC TTGTCCACAC TCACCCTGAG      480
AGCTTCCAGT CTGTGGCCTC CATGCCCTGG AATGAGCCCC TGTAAGATCC ACAATCTCGA      540
G                                             541

```

## (2) INFORMATION FOR SEQ ID NO:1003:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 602 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1003:

```

GAAACGCCTC CTGATTTTGT CTTACAATGG AACTTAAAAA GTCGCCTGAC GGTGGATGGG      60
GCTGGGTGAT TGTGTTTGTG TCCTTCCTTA CTCAGTTTTT GTGTTACGGA TCCCCACTAG      120
CTGTTGGAGT CCTGTACATA GAATGGCTGG ATGCCTTTGG TGAAGGAAAA GGAAAAACAG      180
CCTGGGTTGG ATCCCTGGCA AGTGGAGTTG GCTTGCTTGC AAGTCCTGTC TGCAGTCTCT      240
GTGTCTCATC TTTTGGAGCA AGACCTGTCA CAATCTTCAG TGGCTTCATG GTGGCTGGAG      300

```

```

GCCTGATGTT GAGCAGTTTT GCTCCCAATA TCTACTTTCT GTTTTTTTCC TATGGCATTG      360
TTGTAGGTCT TGGATGTGGT TTATTATACA CTGCAACAGT GACCATTACG TGCCAGTATT      420
TTGACGATCG CCGAGGCCTA GCGCTTGGCC TGATTTCAAC AGGTTCAAGC GTTGGCCTTT      480
TCATATATGC TGCTCTGCAG AGGATGCTGG TTGAGTTCTA TGGACTGGAT GGATGCTTGC      540
TGATTGTGGG TGCTTTAGCT TTAAATATAT TAGCCTGTGG CAGTCTGATG CGACCCCTCG      600
AG                                                                                   602

```

## (2) INFORMATION FOR SEQ ID NO:1004:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 378 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1004:

```

GCGGCAATGA TACCCACTGC CAACCAACAA AAATTGGCTG CAACCATCCC CTACCAGGAC      60
CGAGCCCCTA CAGGTGAGCG GCTCTGCCAG GCCCTGGCTC CTGCCCGCAT GCACCCAAGC      120
CGAGCCCTGG GGCAGCTCCT ACGAGGCTCA CCAGGGCCCC AGCAGGATGC CTGGGTCCCC      180
TGCTCCTGCT TGGCCAAAGG GAAGAGGAAG CAGCAGGCAG GGGCTGGGGA GGCCTTCATG      240
AATTACATGA ATTATCCTTC TTTTTTTTTT TTTCCCTTT TTTTTTTTTT TTTTTTTTTT      300
TTTTTTTTTT TTTTTTTTTT TGAGANNCCA NTTNAAAAAA AAAAGGGGGG GGTGTCAGGG      360
TTTCATTCAG AGCTCGAG                                                                 378

```

## (2) INFORMATION FOR SEQ ID NO:1005:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 208 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1005:

```

GAATTCGGCC TTCATGGCCT ACTGTTTTAT TTCCCGCTTT TATTTTGCTT TTGAAATCTT      60
TTTCCTTGGT GGATTTGTAC GTGTCTTCAC TAGATGCCTC AAATTAAGTC TGACCACAAT      120
CCTACTCTAC TTTCTACAGT GGAGAGACCA TCCTCCCTGC CCCAGGGCTG TCTCCACCCA      180
CCCCCCTTC CCCACCGCA CCCTCGAG                                                                 208

```

## (2) INFORMATION FOR SEQ ID NO:1006:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 396 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1006:

```

CTGATCTGTG AACCTTACAC GAGCAAGGAA TTATTCCGGG TTTTGATAC ACCCTACTTA      60
CTAAATGAAG ACTGGGAATA CTATCTCTCT GGGAAGCTAT TTAATAAATC AAAAATGAAG      120
CTCACTTTTG AACAAGTTTA CAGTGACTGC AAAAAAATA GAGGCACTTA CGGCACTCTT      180

```

CACCTGCAGA	ACAGCTTCAA	TATCAGTGAA	CATCTCAACA	TTAATGAGCA	TACTGGAAGC	240
ATAAGCAGTG	AATTGGAAAG	TCTGAAGGTA	AATCTTAATA	TCTTTCTGTT	GGGTGCAGCA	300
GGAAGAAAAA	ACCTTCAGGA	TTTGCTGCT	TGTGGAATAG	ACAGAATGAA	TTATGACAGC	360
TACTTGGCTC	AGACTGGTAA	ATCCCCGCT	CTCGAG			396

## (2) INFORMATION FOR SEQ ID NO:1007:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 290 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1007:

GAATTCGGCC	TTCATGGCCT	AGATGGGGGC	TAGTTTTTGT	CATGTGAGAA	GAAGCAGGCC	60
GGATGTCAGA	GGGGTGCCTT	GGGTAACCTC	TGGGACTCAG	AAGTGAAAGG	GGGCTATTCC	120
TAGTTTTTATT	GCTATAGCCA	TTATGATTAT	TAATGATGAG	TATTGATTGG	TAGTATTGGT	180
TATGGTTCAT	TGTCCGGAGA	GTATATTGTT	GAAGAGGATA	GCTATTAGAA	GGATTATGGA	240
TGCGTTGCT	TGCGTGAGGA	AATACTTGAT	GGCAGCTTCT	GTAGCTCGAG		290

## (2) INFORMATION FOR SEQ ID NO:1008:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 311 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1008:

GTGGTTCTGA	AATCACCCTT	CCTTTTCACT	CCTCTGCCCT	GACTTCCTCT	CTCACCATGC	60
TCTCCTGCTC	TCCACCTTCA	CCCTCTTCAG	TGGGATTCT	GCATTTCAGC	CAGAGGGACC	120
TGTCTGCAGC	TACCAGATGC	TCCCCACCCT	GGGAGAGCTC	AGCGGCATGT	CTGCACATGG	180
GCCTTTTCAG	CCTTCTTCAT	CCCGCAATTG	GAAGTGAATT	TCCCACTCCC	ATCTCAGACT	240
TGAGAATCTC	TGTTTCTTGT	TTCTTGTTTT	TTATTTTATT	TTTATTTTTT	CTCCCCCTG	300
GCGGACTCGA	G					311

## (2) INFORMATION FOR SEQ ID NO:1009:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 391 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1009:

GGANCAGAGT	CCAANAGATN	AATTATATTC	AGAAAACCTCT	GTTCAAGATA	GGGTATGATT	60
ACAAATTGGA	ACAGATCAAA	AAGGGATATG	ATGCACCTCT	TTGCAATCTG	TACTGTTTA	120
AAAAGGTCAA	GGCCCTGCTG	GGAGGGAATG	TCCGCATGAT	GCTGTCTGGA	GGGGCCCCGC	180
TATCTCCTCA	GACACACCGA	TTCATGAATG	TCTGCTTCTG	CTGCCCAATT	GGCCAGGGTT	240
ATGGAAGTAC	AGAATCATGT	GGTGCTGGGA	CAGTTACTGA	AGTAACTGAC	TATACTACTG	300

GCAGAGTTGG AGCACCTCTT ATTTGCTGTG AAATTAAGCT AAAAGACTGG CAAGAAGGCG 360  
GTTNTACAAT TAATGACAAG CCAAACCTCGA G 391

(2) INFORMATION FOR SEQ ID NO:1010:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 415 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1010:

GGGGAAGAAA GCGTAAGGA TGGTGAAGCT GAACAGTAAC CCCAGCGAGA AGGGAACCAA 60  
GCCGCCTTCA GTTGAGGATG GCTTCCAGAC CGTCCCCTCTC A'CACTCCCT TGGAGGTAA 120  
TCACTTACAG CTGCCTGCTC CAGAAAAGGT GATTGTGAAG ACAAGAACGG AATATCAGCC 180  
GGAACAGAAG AACAAAGGA AGTTCCGGGT GCCGAAAATC GCTGAATTTA CGGTCACCAT 240  
CCTTGTCAGC CTGGCCCTAG CTTTCCTTGC GTGCATCGTG TTCCTGGTGG TTTACAAAGC 300  
CTTCACCTAT GATCACAGCT GCCCAGAGGG ATTCGTCTAT AAGCACAAAC GCTGTATCCC 360  
AGCCTCCCTG GATGCTTACT ACTCCTCCCA GGACCCCAAT CCCAGAAGCC TCGAG 415

(2) INFORMATION FOR SEQ ID NO:1011:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 407 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1011:

GCCAGACTAC CACAAGCCCC ACCCACAATA TGCCAAGCCC TACCCATACC ACAGCAAGCC 60  
CCACTCATAC TTCCACAAGC CCCACCCATA CCCCCACAAG TCCCACCCAC AAAACCAGTA 120  
TGTCACCTCC CACCACTACA AGTCCTACCC CCAGTGGTAT GGGCCTAGTC CAGACTCCA 180  
CAAGTCCAC CCATCCTACC ACAAGCCCCA CCCATCCAC CACAAGCCCC ATCCTTATAA 240  
ATGTAAGCCC TTCCAATTCT CTAGAACTTG CTACCCTCTC CAGCCCCTCC AAACACTCAG 300  
ACCCACCCCT CCCAGGCACT GACTCCCTTC CTGTAGTCC CCCAGTCTCC AATTCCTACA 360  
CTCAGGCAGA CCCTATGGCC CCCAGAACTC CCCACCCAAG TCTCGAG 407

(2) INFORMATION FOR SEQ ID NO:1012:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 291 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1012:

GAATTCGGCC TTCATGGCCT ACGCCGCCGC CACAATGGGC CGCGGAGTTT GGAATCTGA 60  
CGCGGATGCG GCATGTGATC AGCTACAGCT TGTACCGTT CGAGCAGCGC GCCTATCCGC 120  
ACGTCTTCAC TAAAGGAATC CCAATGTTC TGCGCCGCAT TCGGGAGTCT TTCTTTCGCG 180  
TGGTGCCGCA GTTTGTAGTG TTTTATCTTA TCTACACATG GGGGACTGAA GAGTTCGAGA 240

GATCCAAGAG GAAGAATCCC GCTGACCATT GAATTCTAGA CCTGCCTCGA G

291

(2) INFORMATION FOR SEQ ID NO:1013:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 351 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1013:

GAATTCGGCT TCATGGCCTA TGGATTACCT GAGGAAGAAG AGATCAAGGA AAAAAAACC	60
ACCAAGTCAAG GAAAGTCAAG TAGCAAGAAG GAAATGTCTA AAAGAGATGG CAAGGAGAAA	120
AAAGACAGAG GAGTGACGAG GTTTCAGGAA AATGCCAGTG AAGGGAAGGC CCCTGCAGAA	180
GACGTCTTTA AGAAGCCCCT GCCTCCTACT GTGAAGAAGG AAGAGAGTCC CCCTCCACCT	240
AAAGTGGTAA ACCCACTGAT CGGCCTCTTG GGTGAATATG GAGGAGACAG TGACTATGAG	300
GAGGAAGAAG AGGAGGAACA GACCCCTCCC CCACAGCCCC GGCAGCTCGA G	351

(2) INFORMATION FOR SEQ ID NO:1014:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 596 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1014:

GCTCGAGTCG GATCCTCCCT GAATGTGGAG CGATGGGGGG TTGCACACAG GCCGTCTGCTG	60
CCCAGCAGCT AACAAGAAAG ACCCTTGCAT TCCTCCCTGC ATCTCTCCCT TTTGGGTCCT	120
ACTAATGTCT GTTGAATTTC TCTTTTTC AAAGCAAAT CCTTCTCTGC ATTTTGTCTG	180
CTTGCTGTGTT TCCCAGAGCC GCAGGACTCT CTCCTTGTCT GGAGTTCCAG AGAGCCCCCA	240
CTTTCTCTTT CTAAGCTGTG TTGTGTGTTT CCTGGTACAT TCTAGGTTCC CCAAAGATAA	300
ACATGACTAA GGATTGGAAA GGAGGAAAG CCGCGCAGAT TGTTAATCTG AAAGTCAATC	360
CCCGGATTTA GCTCTCAAAA ATGCTTTATT TTTGGAGAAA AGCAATAGAG TAAGACAGAA	420
GGACTTAACG CTTGCAGGGA AGTGGCTTTC TGCCATGTAG AGCCAGGCTG GCAACCTGCC	480
CTCTGCCATC AGGGAGTGAG CATGAACCTG GAAACCTCTA GGACGCAAGA GCGAGGCTGG	540
CTGTCCCCTC GTGTGCAGTG CTTAGACCTT CTTGCCACAC ATCCCATCCC CTCGAG	596

(2) INFORMATION FOR SEQ ID NO:1015:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 353 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1015:

GAATTCGGCC TTCATGGCCT ACTTGGTTTT GCTGACCAAC AAATATGCAT AGTGTCTATT	60
CACAGTTATA CAGTAATAGG TTAGAACAGA AATAAATGCC AGCTTCTTAT GATGCCTTTG	120
CCAACAATCA GGCCATGTGT TTCAGGACCC TTCCTTCCTC TGACTTGTGT AGCATTACAC	180



CTCAGCACAC GACTTCTTGA AAGAGTGAAC CTCCAGGGCT TGCTCTCTCA GATGCACCTG	240
GGCAGCAGCA GGAAGTGTCT GACAGTCTCT CCTGTCTCCA TAAAGTAGCG GGCTGGCTCT	300
TTGCTGGGAG TGATGGGAGC CACAGATACG TGCATGGAAG TTAAGCCTC GAG	353

## (2) INFORMATION FOR SEQ ID NO:1016:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 300 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1016:

GAATTCGGCC TTCATGGCCT AATTATTAAG TAAAATAAGG GTTCCTTGAA TATAGGCACT	60
GCAAATACCA TGACAGTGAT CTGATCACTG AGCTAACTAC TGAGTGACTC AGAGGCAGGT	120
GATGTATACT GTGTGGAGTG GAATGGTGAG AGATTTCATC ACACTACTCA GAATTGCATG	180
AAACTTAAAG CTTATAAATT GTTAAATTCT GGAATTTTTC ACTTAATATT TTCTGACTGA	240
GATTGCCCCAC GGGTAACTGA AACTGTGGAA AGCGAAACTG CAGATAATGG CGGACTCGAG	300

## (2) INFORMATION FOR SEQ ID NO:1017:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 491 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1017:

GCGATTGAAT TCTAGACCTG CTCGATCTCA TGGGGCAGAT GAAATTCTCT TCCTTAGAGG	60
AAAGGGAAAG GTGAGGCCCC AGAGGACTTA TCTCAGCTGT ACATGCTCTG CCTGTGGAGA	120
CATGCCTTTT CTTTGTGCTG TGGCAGACTG GGGCTTTGGA AGTGGTGTAT GTTTAACTTA	180
CCTGAGAGTG AGAGATGTGT AGGAAGAATA GCTGGAAGAA AGTGAAAGAT GAGTGCCAGT	240
ACTTTTGGCC TGTTATCCAG TAGAGAGAAA GTGACAGTGA AAGTAACGTG AGAGAGAAAG	300
AGTGTGTGTG TATATGTGAG AGAGAGAAAG AAAGAGAAAG GAATGCTTGA TTGCTTGTG	360
TTCACTGGGC CAGCTCTGAA ATCCAAAATC ATGCCTTGAT AACATTACAA AACCGTGATC	420
CTGGGTTTGA GTGAATCCTA GAGACATTGT TCTTATGGCC GCCTGGTTTC CGCAGCATGA	480
TCACCCTCGA G	491

## (2) INFORMATION FOR SEQ ID NO:1018:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 323 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1018:

GCTTTTCCAT GAAAGGTGGA TCGAGATCTA CTGCCAGTGG GTCAACAGGT TCTAAATTGA	60
AATCAGATGA GTTACAGACC ATCAAGAAAG AATTAACCCA GATCAAACT AAAATTGACT	120
CCTTGCTAGG GCGCCTGGAG AAGATTGAGA AACAGCAGAA GCGGAGGCA GAAGCTCAGA	180

AGAAGCAATT GGAAGAGAGT CTAGTGCTGA TCCAAGAGGA ATGTGTGTCA GAGATTGCAG	240
ATCACTCTAC AGAGGAGCCT GCTGAAGGAG GGCCAGATGC CGATGGAGAA GAGATGACAG	300
ATGGGATAGA GGTGGACTC GAG	323

## (2) INFORMATION FOR SEQ ID NO:1019:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 319 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1019:

GGTCACAATC TCCTTGCACT CCAGGACTGG GCATACTCAT ATGCCTTCTG TGGTTGGCGT	60
CCTTGTATTT ACCCAGTTT GGTCTGGTT TCCTCTTCA CACTTCTGT CATTGGCTTA	120
TACCCCTACC TGTGTCATTG GCCTTAACAA GGACTTAAAG ATGCCGAAAG TTCAGTATAA	180
ATCGAACTGT AAACCATCCA CATTGCATA TCCTGCCCCT CTGGAAGTAC CAAAAGAAAA	240
AGAAAAGGAA AAGGTTTCTA CTGCTGTATT ATCTATAACT GCCAAGGCTA AAAAGAAGGA	300
AAAAGAAAAG GAACTCGAG	319

## (2) INFORMATION FOR SEQ ID NO:1020:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 450 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1020:

GCGGGCATGG TGTGTAGCCT ATGGGTGCTG CTCCTGGTGT CTTCACTTCT GGCTCTGGAA	60
GAGGTATTGC TGGACACCAC CGGAGAGACA TCTGAGATTG GCTGGCTCAC CTACCCACCA	120
GGGGGGTGGG ACGAGGTGAG TGTTCTGGAC GACCAGCGAC GCCTGACTCG GACCTTTGAG	180
GCATGTCATG TGGCAGGGGC CCCTCCAGGC ACCGGGCAGG ACAATTGGTT GCAGACACAC	240
TTTGTGGAGC GCGCGGGGC CCAGAGGGCG CACATTGAC TCCACTTCTC TGTGCGGGCA	300
TGCTCCAGCC TGGGTGTGAG CGGCGGCACC TGCCGGGAGA CCTTCACCCT TTACTACCGT	360
CAGGCTGAGG AGCCCGACAG CCCTGACAGC GTTTCCTCCT GGCACCTCAA ACGCTGGACC	420
AAGGTGGACA CAATTGCAGC AAGACTCGAG	450

## (2) INFORMATION FOR SEQ ID NO:1021:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 266 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1021:

GAATTCGGCC TTCATGGCCT ACTAGACCTG CTTTTTGGAA GAGAATGCTT TTCACCTGTT	60
CTTTTTTTAA TCCACCTGGC ACTTTCCTCA GGACCCAAAC TTGTTCACTC TGCTGCTTCT	120
TGATGTATCA ATTTTGGGAC ATCACCTGTT GTCTCCTTGC TGTGAATGAT GAGGATTTGG	180

CCCATATTAC CCCCGTTCCT TCCCCGGTCA TTCTCTCGGT TGCCTTTGTC ACTTTAAATC 240  
 ATTTACATAA ACCACAACTT CTCGAG 266

(2) INFORMATION FOR SEQ ID NO:1022:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 352 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1022:

GAATTCGGCC TTCATGCCTA AGAAACTTAT TCGTCTTCAG CATGAGAATA AGATGTTAAA 60  
 GCTTAACCAA GAAGGTTTCGG ACAATGAAAA AATAGCCTTA TTGCAGAGCC TTCTAGATGA 120  
 TGCAAATCTA CGCAAGAATG AACTGGAGAC AGAGAATAGG CTGGTGAATC AAAGACTTCT 180  
 GGAAGTACAG TCACAAGTTG AAGAATTACA AAAATCTTTA CAGGATCAAG GCTCAAAAGC 240  
 AGAAGATGCT ATTTCACTCC TTCTAAAAAA GAAGCTTGAA GAACATCTAG AGAAGCTGCA 300  
 TGAGGCCAAT AATGAACCTAC AGAAGAAGAG AGCCATTATT GAAGATCTCG AG 352

(2) INFORMATION FOR SEQ ID NO:1023:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 249 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1023:

GAATTCGGCC TTCATGGCCT ACAAAGCCCA CCAGGTGAAT AAATGCCATT TTCTTTTTCG 60  
 CTAGACATTG TTCATTTACT GAAAATGAAC AAGGTAATGC TCAGCATACA AAAAAAATTT 120  
 AAAGTTCTCA AGATCCCATG CTTTCTGGAT TCCTCTGTAT TTATCACTCA AGTCATCCCC 180  
 CTTTTTGTA TCTCGCTTTT TGTCTCGCT TTATTTAAAT CCTTTATATC ACTACCCCCA 240  
 TCTCTCGAG 249

(2) INFORMATION FOR SEQ ID NO:1024:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 267 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1024:

GAATTCGGCC TTCATGGCCT ACAGGAAATA GGCAAAAATA CCCAGGAAAA GGAAACAGTT 60  
 TTATGCATTA GTGCTGTACC TTCTTCATAT TGTCAAAAAT AAAAGATAGT AGAGATTTAT 120  
 TGAAAACATT TTAAATAAAG AAGTTGTGTT CATAATATAA AGCTGCCTTA AACTATATAT 180  
 GAAAAAACT GTAAATCATA GAAATAAAT TTATCAAAGA TGTAAATAA TACATTTTAC 240  
 AGAATAATTT CCCATGGGCT TCTCGAG 267

(2) INFORMATION FOR SEQ ID NO:1025:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 232 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1025:

GAATTCGGCC	TTCATGGCCT	AGCCATCTTA	TTTGAACAT	ATTTTTCCTT	CAAAGAAGCA	60
ATAGGTCTCA	ACATAGTGTA	GGTAGCATCA	GGTGACAGAA	AGCCAATTTT	ATTTTCAAAT	120
TTAAGTTAAT	TATCTTCGTG	ATCCTATTTA	TCCACAATTT	CTTTCAGAAA	AGACTGAAAA	180
AACACATTAT	ATTCAGGAGA	TATAATGAAA	TTATTGGAAG	GCATCACTCG	AG	232

(2) INFORMATION FOR SEQ ID NO:1026:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 153 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1026:

GAATTCGGCC	TTCATGGCCT	AGATTGAATT	AGACCTGCCT	CGAGCCCCTA	AAAATATCCT	60
AAATGCATTT	CCTCCTCTGC	ATTCTAACTA	CTGCTGCCCT	TGTTCTAGGA	CTCCACTCTC	120
CCACATCAAC	CAACTTTTCT	CCTTGGCCCC	CTC			153

(2) INFORMATION FOR SEQ ID NO:1027:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 294 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1027:

GCGAGGGCCA	GGGAGGGAGG	AAGCAATAAA	TAGGGGGAGA	AAATGGCAAT	AAGACGTTAT	60
ATAGCCCTTC	TAACAAAAAT	ACCAGAAGGG	AGGGGTGAGG	GACAAGGCTG	TCTGAGGGAG	120
GGCAGGAGGT	GAGGCCATGG	CTTGGTCTCT	TTTGCCTTGG	GATGGCCGTC	AGCTCAGCAT	180
GAGGCATCTG	AAAGAACTAC	CCAGATTGCA	GAAGAGAGAG	GTCCCAGCCT	CCTTGGGAAGG	240
ACATGATGGG	GGAGGAGTGG	AGACAAACAGC	TGAGTGTTAC	CTGTAAAACT	CGAG	294

(2) INFORMATION FOR SEQ ID NO:1028:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 285 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1028:

GAATTCGGCC	TTCATGGCCT	ACACACATAC	CCAACACACA	CACAGACACA	CACATACACA	60
GAATCAACAC	TCAACACGCA	AACACCCAAC	ACACACATGC	ACACACACTT	TCTGAAGATG	120
AGTTTTCTCA	TTTATGAAAT	GAGCTCATCT	GGACTTGCCA	TGAGGGTCCA	ACAGGTGCCA	180
TGCAATCAGG	TGTGCACTCA	GTATGGGCTG	GGTGGAGATG	GCCATCTCCT	TTCCCGTCCA	240
GGCCTGGTTC	CTGTGTGCTG	GGCCTCTGCT	CTTCCCCCCC	TCGAG		285

## (2) INFORMATION FOR SEQ ID NO:1029:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 263 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1029:

GACAAGCTGA	GAAAATGAAA	GGAAACTAG	AAGAATTGTC	TAATCAGTTA	CATCGCAGTC	60
AAGAGGAGGA	AGGAACACAA	AGAAAGGCCT	TGGAAGCCCA	AAATGAAATA	CATACCAAAG	120
AGAAGGAGAA	GCTGATTGAT	AAGATTCAAG	AAATGCAGGA	GGCCAGTGAC	CACTTGAAGA	180
AACAATTTGA	AACTGAAAGT	GAAGTCAAGT	GTAACCTCCG	GCAGGAAGCA	TCCCGGCTCA	240
CTTTGGAAAA	CAGGGAATC	GAG				263

## (2) INFORMATION FOR SEQ ID NO:1030:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 243 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1030:

GAATTCGGCC	TTCATGGCCT	ACCTCCTACA	AATTTAATTT	TTTTATGAAA	TTTTTAGGTG	60
ACTTGTAAT	TCTTCATGTA	TGAGGAGTTG	TGTTTATTAA	TGCTACTTTT	TAAATTTTCC	120
TGTGCCATGT	GGCAGATGTT	TATTCTCTTA	ATGCACTTCA	GGTTTGCTAT	CTGTAAAGCC	180
TTTGACCCAG	GCCTACTGAG	TCAAATCTAC	ATTCAGTGTA	ACATTAAAGG	CAGAAACCTC	240
GAG						243

## (2) INFORMATION FOR SEQ ID NO:1031:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 246 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1031:

AATTCGGCCT	TCATGGCCTA	ATTGAATTCT	AGACCTGCCT	CGAGATTACA	GCCAGAGTCT	60
CCTAACTGCT	CTCCATCTAT	TCTCTAATCC	CAATAGCTAC	TCTCCATGCA	GCTGTCAGAG	120

TGGGCCTTAT AAAACATTGG TCAGGTCATG CCAGGCCTCC GATGGCTCCC ATCACACTCA 180  
 GGGTAAGAGC CGAAGCCCCA TGTGGGTGTC TAAGGCCCCG TGTGATCCTT ACCCACTTCT 240  
 CTCGAG 246

(2) INFORMATION FOR SEQ ID NO:1032:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 114 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1032:

GAATTTACAC CTGCCTCGAG TACTCCCATG CCACTTTTCAG CACAAATATC ACTTATTATG 60  
 TGCTGCTTGA ATATTATTTT CTTTATTCTT AAGTTTGTC CATTCACTCT CGAG 114

(2) INFORMATION FOR SEQ ID NO:1033:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 302 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1033:

GAATTGTTGT TCTTTTCTTT TCCATGATAT CATTATATGG ACAGTTTAGG GTGGTCTCAT 60  
 GGATTATAAC CATTGGGATA TTTGGTTCAC TAACAATTTT CTTACTGGCC AGAGTTCCTG 120  
 GTGGAGAAGT TGCATATGGC CAAGTCCTTG GAGTTATAGG ATATTCATTA CTTCTCTCA 180  
 TTGTAATAGC CCTGTACTT TTGGTGGTTG GATCATTGA AGTGGTGTCT ACACTTATAA 240  
 AACTGTTTGG TGTGTTTGG GCTGCCTACA GTGCTGCTC ATTGTTAGTG GGAGATCTCG 300  
 AG 302

(2) INFORMATION FOR SEQ ID NO:1034:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 262 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1034:

GAATTCGGTC TTCATGGCCT ACCTGAGCAC TCTGCATTTT AATTCTGTGT TCTTCCCTT 60  
 TATCTATGTG TTGTCTCTGA GGAAATGTCC TTTAATGTCT TCCTCAGGCT TGATACCTAA 120  
 TTTGAGATGG TTCAAACAAT TTTTCCCTT TCCCTTCACT GGAAGCTTTG TTACTCATTC 180  
 TGTTTGCTTT CATACTTTCA AATGCTGTCT TTTTATTTT GGTGGTATTT TTTTCTCTT 240  
 TCTCAGGTGT AACATACCTC GG 262

(2) INFORMATION FOR SEQ ID NO:1035:

- (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 388 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1035:

```
GAATTCGGCC TTCATGGCCT ACCTACTAGG CATGTTTTAT GACACAGATG ATGCGAGTTT    60
CAAGTGGTTT GATAATTCAA ATATGACATT TGATAAGTGG ACAGACCAAG ATGATGATGA    120
GGATTTAGTT GACACCTGTG CTTTTCTGCA CATCAAGACA GGTGAATGGA AAAAAGGAAA    180
TTGTGAAGTT TCTTCTGTGG AAGGAACACT ATGCAAAACA GCTATCCCAT ACAAAGGAA    240
ATATTTATCA GATAACCACA TTTTAATATC AGCATTGGTG ATTGCTAGCA CGGTAATTTT    300
GACAGTTTGT GGAGCAATCA TTTGGTTCCT GTACAAAAAA CATTCTGATT CTCGTTTCAC    360
CACAGTTTTT TCAACCGCAA CCCTCGAG                                     388
```

(2) INFORMATION FOR SEQ ID NO:1036:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 258 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1036:

```
GAATTCGGCC TTCATGGCCT ACTTTTGTAGT AAAGAGCAAA CTCATAAATT TTGGCATCAG    60
AGTTTGAGCT TTATTTTCT TAAATGAGTT TGAATCAAT TTAATATTC TCTCCAATTC    120
CCTAATGTCT CAGAAGTGAA TTTACAGTAT ACCTTTGTTT TTTCTGATTC TTAAGTAGTA    180
TTTGGATTTT ATTTAGTAGT TGCAGTACTA AATAAGGAGT GGGGAGTTAA TTACAAAACG    240
AATCAGGTGA CTCTCGAG                                     258
```

(2) INFORMATION FOR SEQ ID NO:1037:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 85 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1037:

```
GCGATTGAAT TCTAGACCTG CCTCGAGTGA TTTGGCCTGC ATGGTTTTCC TCCTACCCCT    60
TTTTCTTTGC CTGGGTCAGC TCGAG                                     85
```

(2) INFORMATION FOR SEQ ID NO:1038:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 248 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1038:

GCGATTGAAT TCTAGACCTG CCTCGAGGGG TTTGGAGCTC TGTGGGTGG TGACCTCAGT	60
CCTGTTTACC CCTGCAGAAG AAGGACCCAG CCCAGTTCCT GCAGGTACAT GGCCGAGCTT	120
GCAAGGTGCA CCTGGATTCT GCAGTCGCCC TGGCCGCTGA GAGCCCTGTT AATATGATGC	180
CCTGGCAGGG GGACACCAAC AACATGATTG ACCGATTCTGA TGTCCTGCT TAGGCCATGA	240
AGGTCGAG	248

## (2) INFORMATION FOR SEQ ID NO:1039:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 253 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1039:

GAATTCGGCC TTCATGGCCT AGTCACTTAA ATAGATTTGG TGTGAAATTT TATGATAAAA	60
GGTGACTTTT GTTCTAGTAA GTATTCTCAA AGAAAAGAGA GTGAGTAGCT ATTTTGGGAT	120
GAAGATAGTT ATAAGTGA TAGCGGTTT TGTGTTTGT TTTTGTGTTT GGCCGAGGCG	180
GAGTGCTGTG GTGCGGTCAT GGCTCACTGT AACCTCAGCC TGGGGTCAAG GTCTGCCCAT	240
CTCAACCTC GAG	253

## (2) INFORMATION FOR SEQ ID NO:1040:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 232 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1040:

GAATTCGGCC TTCATGGCCT AGTTCAAAAA TAAAGCAAAT ATTTATTTTG GTATTGTTTT	60
GAGCACAGCT GATTTTAAAC ATTTTCTTTC ATAACACTCA GAAATCATTG ACAATTGTTT	120
GCTCATTGGG TATGGGTTTT TTGTTCTCTT TTTTCTTTTG GGTTCTTTTA GGTGCTTTCT	180
TTTAACATTG GTCATGTTTC ACCCTTTTTT TTTTCATCCC CCCAGTCTCG AG	232

## (2) INFORMATION FOR SEQ ID NO:1041:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 272 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1041:

GAATTCGGCC TTCATGGCCT ACAAGGACGT TAAAGGCATT TTATTCCAGC GTCTTCTAGA	60
GAGCTTAGTG TATACAGATG AGGGTGTCG CTGCTGCTTT CCTTCGGAAT CCAGTGCTTC	120
CACAGAGATT AGCCTGTAGC TTATATTGGA CATTCTTCAC TGTCTGTTGT TTACCTACCG	180



TAGCTTTTTA CCGTTCACTT CCCCTTCCAA CTATGTCCAG ATGTGCAGGC TCCTCCTCTC 240  
TGGACTTTCT CCAAAGGCAC TGGACCCTCG AG 272

(2) INFORMATION FOR SEQ ID NO:1042:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 286 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1042:

GAATTCGGCC TTCAGGGCCT AGATTAAATC TCAAGGTGGA CTAGGAGAGA ACAAGCAGAC 60  
 TTCTATAGAA CAGTGTCTTC CTTGGTGTT GTTTACGATC AAGAAAAGAA AACCTTTGAC 120  
 TGGACACAGT TCCGCATCAT TTCCCGTTG GACAAGAAGT CGGATGAGAG CCTGGAACAG 180  
 TATTTTATA GTTTTGTGGC CATGTGCCG AATGTCTGTC GTCTACCCAC ATGGAAAGAT 240  
 GCGCGTCCCC CAGATACCAC CATCTACGTT GAACCCATTA CTCGAG 286

(2) INFORMATION FOR SEQ ID NO:1043:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 230 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1043:

GAATTCGGCC TTCATGGCCT AGTGAATCT TATTGGGAAC CTAAACTGC TCTTAAAGTC 60  
 TTTTGAAGAA CTCAGACATA TTTTGGCAT TACCTTTTTT TTATTGGAAA GGAAAAATGA 120  
 AAACCTTTCA TTTTATTAAT AATTCTATAT TCCACTCCTG TATTTTCTTC TCTTGGATGA 180  
 TGATGGTGAT ATTATTCTC ACTTTTCAAA ATAATACCCT GGGACTCGAG 230

(2) INFORMATION FOR SEQ ID NO:1044:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 238 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1044:

GATTCGGCCT TCATGGCCTA GGGAAAATAA AAATGTATTC AGTAGCACGT GGGTTATGGT 60  
 TTCTCATAGA CCAGGGGATA AGATTAAAAG TCACTGAAGA GTGGGAAAAT GCATGTTGAG 120  
 AAGATGAGAA TGGCCTGTAT TTTCTCCAGG GGAATCTGTG TAATGTGCCT TTTCCCTCTC 180  
 CAAATGCCTA GAACCATGGC ACTGTGTCTT ATTTATTAA CCGTTGGGCC GTCTCGAG 238

(2) INFORMATION FOR SEQ ID NO:1045:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 333 base pairs

(B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1045:

TAATTCATCT AAGTTGTTGA ATTAGCATAA AGTTTTTAAT AAAATTTTAT GTAATTCCTT	60
TTTAGAGAAC TAACTTTTGA AATTGCTGAT TTTCTGTTT CCGTTTCAAC ATTTTACACA	120
CTGGTAGTTA ATAGTTTTTT CTCTCCAGCT TACTTCGTGT TTGATTACT TTTCCCTTTC	180
TGCTCTCTTG AGGTGGAAGC TTAGAGGATT AATGATTCCA TTTCTTTCTA ACGAAATCAC	240
TTAAACTAT AAATTTCACT CCAACTACTT CTTTAGCTAA ATTCCATAAA TTTTACTATG	300
TTGTGTTTCC CTTTTTCACT CCGTCTCCTC GAG	333

(2) INFORMATION FOR SEQ ID NO:1046:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 429 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1046:

GAATTCTAGA CCGCCATTG TGGGGAGTGG AAGTGGCATG ACCTCAGGAG CCAGTTCTGA	60
GTCCAGGTGA ACCAAAGCTC AGTTTCTTTC ATCTTTGAAC CTGAACCTCT TACCTCCAAG	120
AAAAAGGGCC CAGGAATTTG GGCCTTCTTG TTTATTTGTC CTTCTGCCCC TCTCCCTATC	180
TAACCCCTGG GTAAGGGTGA GCTTGAAGGT GATGGTGACA GTGGCTTCTG TGTGTGTCAG	240
TCCACCCTCC AAGCAATGCT TAGAAACCAG TCCATAAGCC AATTAACACA TCATTTTATG	300
GGCAGATTG CAAGTTCTCA GTTGTTTACA TGTTTCGTTA AGTACTAACC TCCAAATTAA	360
TAAAGCATGA CACATGACAT CACACATTTC ACAATTTGTA CCCAAGCAAA GTTCATGGAG	420
GTACTCGAG	429

(2) INFORMATION FOR SEQ ID NO:1047:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 65 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1047:

GCTTGGTAGA CCACATCCAA GGGACGATGA GGTTCCTCCAG AGGAGGAGTG GTCACCATGA	60
TCGAG	65

(2) INFORMATION FOR SEQ ID NO:1048:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 498 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1048:

```
GAATTCGGCC AAAGAGGCCT AAATTGGTT TAATGTGTCA TCAAACCTTG TATTCAGCTA      60
TCTAGAGCCA TTTTCTGGAT TCATGCAATA CATTTTCCCC AAACCCTTTT TATTTTGAAA      120
AAGCTCAAAC ACAGAAAAGT TGAAAGAATA GCGTAAAGAA CATCTGGATG TGGTGCAGGG      180
TCTCATGTTT ATAATCCCAG CACTTCGGAA GGATTATTTT AGACCAACCT GGGCAACATA      240
GTAAGACCCA ATGTCTACAA AAATGTTTAC GGATAAACCA GGCGTGGTGG TGAGGTAGTC      300
CCAGTACTC AGGAGGCTGA GGTGGGAGGA TTGCTTGAGC CCAGGAGTTC AAGGCTGTAG      360
TGAGCAATAA TCACATCACT GCATTCCAGC CTTGAGTAAC AGTGAGACCT GTCTCAAAAA      420
AAAAAAAAAA AACACCAAAA ACAACCAACT GTGTATATCT TGCCTGATA ATCCCCCGAA      480
TTCTAGACCT GCCTCGAG
```

(2) INFORMATION FOR SEQ ID NO:1049:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 443 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1049:

```
GAATTCGGCC AAAGAGGCCT AAGCTGAGAT GGGTGTTAAA AGTTAAGACA CAGCTTAAGA      60
CAGAAGCATT GTAAAACAGG AACAAATACT GGCTTAAACC TGATGTCTCT AACTATATTC      120
CTCTATTTTA AGAATGTTTT AGTATCTGAT AGTTTCATCA GCCTTTCCAT TTTCCAATAT      180
GTGACCTTTA TTCCCACCAT GTCCCAAATA AACGAGTCCT AGGATTTTCT AGAAGGTGGA      240
CCTCAATTAT TGTGTCCCTT TTATATATAA GGCAAACATT GCTTTTAAGT TCTGTTGGAA      300
CATGGGAACT TTCACTAGAA TGCTTAGAAT GTTCAGAAAA AATGTCCCAA AGCTCTCTTC      360
TGGTCCATAC AAGACAATCA GAATGTAACA CAGTAGCAGA GGTGTGGGAA CATACTAG      420
TCATATTTGA TTCTCTCTGT CAG
```

(2) INFORMATION FOR SEQ ID NO:1050:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 68 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1050:

```
GAATTCGGCT AAAGAGGCCT ACTTCTGGCT ATTTTCAAAT ATATAATATG TTATTGTTAA      60
CTATACTC
```

(2) INFORMATION FOR SEQ ID NO:1051:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 278 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1051:

GAATTCGGCC	AAAGAGGCCG	GAATTTGGCC	CTCGAAGCCA	AGAATTCGGC	ACGAGGGCAA	60
GACTCTGTCT	CCAAAAAAAA	AAAAATTTAA	AAAAAAAAAA	ATTTTTTAAA	AAATTTTANT	120
TAANGTAAAT	TTAAAAATGT	TCAGTGAAAT	GGTAAAAAAA	AAAAAAAGAC	GCACAAAATA	180
CCTTCATGTT	TCTCATCTCT	TTTCCCTTC	AGATTCTGCC	TTTCTTCCAA	TTCAGCTCTT	240
CTTTTCCAGT	CTTCAACCA	ACCACCACGA	CTCTCGAG			278

## (2) INFORMATION FOR SEQ ID NO:1052:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 307 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1052:

CTCGAGGACC	AAGGATGAAG	AGCATAAGAA	GATGAAGATT	GTAACTTGT	ATAAAATTAT	60
CTTGGTGAGA	AGACAAATTG	TAAAGTAGAT	ATTTGTAATC	TTTTTACCACT	TTGGGGTTGC	120
TTTTTTCCCG	GAATTCATCA	GAAC TTGAA	TTTTTTTTTT	AAATGGGCTG	TTTTTAATGC	180
AGGGGCTTTT	CTTCCCTAGA	AACCCAATTC	TAAGCAGAAA	AAGNAAAAAN	ACACCAAAAA	240
TAAAAAACCC	CCCTCGTGCC	GAATTNTNGG	CTTCGGGGGC	CAAATTCGGG	CCTCTTTGGC	300
CGAATTC						307

## (2) INFORMATION FOR SEQ ID NO:1053:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 332 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1053:

GAATTCGGCC	AAAGAGGCCG	GAATTTGGCC	CTCGAAGCCA	AGAATTCGGC	ACGAGGGCAG	60
TTAAGATCTG	GGTGATTCTT	TAGGGAAACG	GCTGGTTGAG	AGGCTTTGAT	GGAATCCCAT	120
TCTCTGCTGT	GGCCAGAAGG	TGGTGCTAGA	GGCCAGTCCC	ACTTGGATGT	GACCTTGCCC	180
TCTGCCAGGA	TTCAAACCAC	AAAGAACATT	TGGAAC TGGG	ATGTTTGCTT	TGAAGCAGCC	240
TGAAAACAAG	TGAAAAGGAA	ACCAAGATAA	CTCTCTCTCC	CTCCGCTGGC	AAGGATCAAA	300
AATACCTTGT	GCAGGGAAGC	CCGAGCCTCG	AG			332

## (2) INFORMATION FOR SEQ ID NO:1054:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 389 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1054:

GAATTCGGCC	AAAGAGGCCG	GAATTCGGCC	TCGAAGCCAA	GAATTCGGCA	CGAGGCCTCG	60
TGCCGCGCCG	TTTTTTTTTT	TTTTTTCAC	AGGGGGGCAG	TCGGGATTAT	AATACACTGT	120
AGCAGTTGGC	TGGGGAAAAG	TCTATCAAAT	TCCATGACCA	ATTGGACTTT	TCTCCCACCT	180
GTAATATAAA	TAAAATATGT	ACTGTTTCAT	ACTGAATTTT	TTCAATGCAT	TGGGGTTCAA	240
CATAAAAGGC	ACAAATAAAT	AAAAATATCA	TTAAATAAAC	GGAAATTACA	ATTTCAAGTT	300
TCATGTGGAG	TTGTATCTCA	CTGTTTGGTT	ACTTTTTCCT	ATTTAATTTG	ACAGACTTAG	360
TAATAGCACA	CAACTGTCCT	ACCCTCGAG				389

## (2) INFORMATION FOR SEQ ID NO:1055:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 213 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1055:

GAATTCGGCT	AAAGGGTCTA	CGAGGTCAGC	AAGGACGCCC	AAGGAGACTC	AGTCATGAAA	60
GGTGAAGTGC	TCCTGTTTTT	CAGTGTGATT	GTCCTGCTCC	AGGTGGTATG	CAGCTGCCCC	120
GACAAGTGTT	ACTGTCAGTC	ATCTACAAAT	TTTGTAGACT	GCAGCCAGCA	GGGTCTGGCC	180
GAAATCCCTT	CCCATTCCCC	TCCGTCGCTC	GAG			213

## (2) INFORMATION FOR SEQ ID NO:1056:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 173 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1056:

GAATTCGGCC	TTTCATGGCCT	AGCGATTCCA	GGTTTTAAAT	AGTTTGTAAG	TTTTCAGTTT	60
CTACACACTT	TATCATCCAC	TCGTGATTTT	TTAATTAAAG	CGTTTTAATT	CCTTCTCTG	120
TTTTCAGTTT	GATGCTGAGA	TCCATATTTA	GTTTTATAAG	CTTCCCCCTC	GAG	173

## (2) INFORMATION FOR SEQ ID NO:1057:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 555 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1057:

GGTCATACTC	TCTCATCCAG	ACTGGAGTGC	ATGGAGTGCA	GTGGCACCAT	CTCGGCTCAC	60
TGCAACCCCT	GCCTCCCAGG	TTTAAGCAAT	TCCCCTGCCT	CAGCCTCCCG	AGTAGCTGAG	120
ATTACAGGCA	CATGCCACCA	TGCCTGGCTA	ATTTTGTAT	TTTAGTAGA	GACGGGGTTT	180
CACCATGTTG	GCCAGGCTGG	TCTCGAACTC	CTGACCTCAA	GTGATCTGCT	CACCTCAGCC	240
TCCCAAAGTG	CTGGGATCAC	AGGTGTGAGC	CACTGCACCC	GGCCTAGTTT	CCATTTTCT	300
GTTGATATTT	ACTTCTATTC	ACTCATTAAG	ACTATATTTT	ATTTCTTTAA	TATATTTTCC	360

CTTAGTTCTT	TGAACATATT	TATAAGAGCT	ATTTTAAAGT	ATTTGTCAGT	TGAATCTAAC	420
ATCTTTTGGG	GCCATTTTCT	ATTGACTGCT	TTTTTCTTGA	TGATGAGTCG	CATTTTCCTT	480
TTTGCTATC	TAGTAATTTT	TAAATTATAT	ACTGTACCTT	GTGGATGTAT	GGTAGAGACT	540
CTGGGGTCTC	TCGAG					555

## (2) INFORMATION FOR SEQ ID NO:1058:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 324 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1058:

GAATTCGGCC	TTCATGGCCT	AGAATGTTAG	AAGGTGCCTG	CCGAGGCGGG	ACAGAGTGTT	60
CGCTCGCGCT	GGAGAAGGCT	CTGCTCAGCC	CTGAGAGTCC	CTTCCTGCCC	CACCGATACT	120
GGCACTTTAA	CAAGGAAGCT	GACCGCACAG	TGTCCAGACG	AATTGGCCCC	CAGAAGATGG	180
GGAGTTCTGT	CCTGCCCTTC	TGTGTCTGCG	TGACCTCACC	CAGCCTAGGA	GGGAGGTGCA	240
TTCAGGGTAG	ATTGCTCTCT	CATTCAAAGT	TCTGGGGCTT	TGGGTGGAAA	ACAGCCAGCT	300
TTGGCGCTGC	TGGGGAGACT	CGAG				324

## (2) INFORMATION FOR SEQ ID NO:1059:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 219 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1059:

GAATTCGGCC	TTCATGGCCT	ACTTGATGCT	GCAAAGAACA	AGATGCGAGT	GAAGATCAGC	60
TATCTAATGA	TTGCCCTGAC	GGTGGTAGGA	TGCATCTTCA	TGGTTATTGA	GGGCAAGAAG	120
GCTGCCCAAA	GACACGAGAC	TTTAACAAGC	TTGAACCTAG	AAAAGAAAGC	TCGTCTGAAA	180
GAGGAAGCAG	CTATGAAGGC	CAAAACAGAG	CAGCTCGAG			219

## (2) INFORMATION FOR SEQ ID NO:1060:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 292 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1060:

GAATTCGGGC	CTTCATGGCC	TAGTATTTAT	AGCCAAGGAA	ACAGGGCTAT	GAGTTTGTAC	60
TGTAGGCAGC	AGTAGGGAGG	GGGAATTGGA	AGCAGGGGGG	AGGGCTCTGC	AGTAGTTCAG	120
TTGATGCATA	CATAAGGCCT	GAATTAGGGA	ATTAGGAGAG	TGATCATAGG	TGTGGAAAGG	180
AGGGGAGGGC	TTCCAGGCAC	ATTTGGTGTA	AAATGGATAC	AACTTGGTAA	CCTGTACATT	240
GCTACCTTTC	CACATTTGGT	TTCCCCTGTC	TCAAAGGCTC	CCTCTTCTCG	AG	292

## (2) INFORMATION FOR SEQ ID NO:1061:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 386 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1061:

```

GAATTCGGCC TTCATGGCCT AAAGAAAACA AACAAACAAA GAGAAAACCC ATGAGCATT 60
TAATTCGTGAC TTTTCTACTT TTCTCCCTAC ATTTAGAATA CTGTGGCACT TTCTGTTATC 120
CAAAATGTGTC TCAGTCTCCA TATTTAAGGA CTGTGGGTGA AAAGCTTCTA CCTGGAATTG 180
AAGTGCTTTG GACAGGTCCC AAAGTTGTTT CTAAAGAAAT TCCAGTAGAG TCCATCGAAG 240
AGGTTTCTAA GATTATTAAG AGAGCTCCAG TAATCTGGGA TAACATTCAT GCTAATGATT 300
ATGATCAGAA GAGACTGTTT CTGGGCCCGT ACAAAGGAAG ATCCACAGAA CTCATCCCAC 360
GGTTAAAAGG AGTCCTCACT CTCGAG 386

```

## (2) INFORMATION FOR SEQ ID NO:1062:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 316 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1062:

```

GAATTCGGCC TTCATGGCCT ACATGAAGCT GAATTACTCT CATCTTATAT CTCTCTGCAG 60
TGGCATATCC TGATGGTGAT TTCCTCTTTT TGTGCCTCAG TTTCACCCCC TATGGAATGG 120
GGATAAACAC TTGCGGCTGG GCATGGTGGC ATGTGCCTGT AGTCCCAGCA CTTTGGGAGG 180
CTGAAGTGGG AAGATTGCTT GAGGCCAGGA ATTTGAGACC AGCCTGGGCA ACATAGTGAG 240
ACACTCTCTC TACAAAAAAA AAAAAGAAAA AAAAAATCAG ATGTGGTTGG TGCATGCTAC 300
TGAGGCGAAA CTCGAG 316

```

## (2) INFORMATION FOR SEQ ID NO:1063:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 289 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1063:

```

GAATTCGGCC TTCATGGCCT ACTAGACCTG CCAAGCTTTC TTCCTTCATA CTACATATTT 60
CACAAAATTT GCTCGTCAGG TCTGCAAAAA TACCCTCCGG CTGCGGCAGG CAGCAAGACG 120
GCCGTTTGTT GCTATTAATT ATGCTGCCAT TAGGGCAGAA TGTAAGATGC TTTTAAATTC 180
TTAACGTTAT ATGTGTGCT TCTGACCATT TTCTCTTTC CTCTCTTTC TTTTCTTTT 240
GTTTGTGTTG TTGCAATAAA CATAAGTTCT TGTGTACAG CCACTCGAG 289

```

## (2) INFORMATION FOR SEQ ID NO:1064:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 288 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1064:

GAATTCGGCC	TTCATGGCCT	ACAGAGCTGA	GAAATAATTC	CCTTGTGTGT	TTATAAGTAA	60
GAGTTAAATC	CCTCCCATTTG	TAATGTAGCA	CCAGATCGAA	GTAACAGAC	TATGATTTCA	120
GTGCTAGACA	CAGCCTTAAG	GCAGAAGAAA	TTACACTGTC	ATGCAAAGGA	TATGTAGCTG	180
CTGCTATTTT	GGTGCTTGAA	TTCTTCGTTG	TCACATAGTT	GAAGGCAATC	CAGATGAGGA	240
AGAGTGTTAA	CCAACAAAAA	GAGAAAATTC	CCTGCACATG	GTCTCGAG		288

(2) INFORMATION FOR SEQ ID NO:1065:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 495 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1065:

GAATTCGGCT	TTCATGGCCT	ACTGGGAGCT	ATCTTGCTCTA	CCTTGAGGTT	CCTGAACAAT	60
GAATTCCTCAT	TAATGAGCAG	TCTTCAGTAT	TAAAACCACT	GTCTTGTCAC	CTCATTTC	120
ATTACTGTCT	TCCGTGGATG	TTTCAGTTAC	AACGTGAATG	TTATTTATAG	AACAACATTA	180
ATCCATTAAA	GCTAACCTAT	TTTTCAATAT	TTATGATAAT	CTATGTACAT	ATATTGTCTG	240
TCCATATGTA	TTTGTAATAA	GGTTGTATAT	AATGTCAGGT	TTGGGTCTTG	GGTTCAAGTG	300
TATATATTCC	TGTAAGTTTC	TTAACTGCAT	TTTGATGAAT	TCACATTATG	TAACTATAAG	360
AATTGTCCCA	AAAGTACCTG	TACAGAAAAT	TGAATATTGA	AAAATTGACA	AATTGTGTAC	420
AAACACTAAA	AAAACTTGT	TTAAATTGTA	TTTGCAATAA	ACAACATCAA	ATTTTTCAT	480
GAAATCTGCC	TCGAG					495

(2) INFORMATION FOR SEQ ID NO:1066:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 507 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1066:

GAATTCGGCC	TTCATGGCCT	AAAGATTATA	AAGGAAAGGG	GGGTAGTTAA	GATTTAGAAT	60
TCAAGTTAAA	TTTCAGAAAT	TGGGGCAGTC	AGGCATTTGT	ATCTTTTAGG	GCAACAAGTA	120
AAACATGTAG	AGTGCTTGCT	ATCCCACTTC	ATAAAGCTTT	TACCCAATCT	TATTTCTAAA	180
CCTCTGTGCA	TTCTTAGTGT	CTTCTCATTC	TGAAACAGAA	AATAAGGAAA	AACATTTAAC	240
TTAGTTTTCT	AAAATCAGAT	AATCCTAAAC	AAAAATGTTA	GTCAGGGTCA	CTAAAAAGTA	300
TTGCACATTT	ATATAAATAC	AGTCCTTTTA	AAATTTGACT	TTTAAAAAAC	AAAAGACTTT	360
GTACGATATT	GTGTTTTTAT	TGCGTTTGCA	ATATTTTTAT	AGTAGCCTTT	ATGAACCTCAG	420
TATAAGTGCA	AGTTGTTTGA	AAAGGTGTTT	TTATTAGTGC	ACAATAGAAT	TGTGAGGTTT	480
TCAATAGATG	TCATGAGATT	CCTCGAG				507



## (2) INFORMATION FOR SEQ ID NO:1067:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 393 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1067:

```
GAATTCGGCC TTCATGGCCT ACTTATTTT TTCTTTTAAA CAAATAAGCA CACATTCTTT      60
TTAAATAAAG TTTCTCTTCC CCAACCTAAA AGTAGTAATG CTAGAATTG AGCATAGCAG      120
AAAAATATTT AGGAAAATTA AATCCCAAAC AAGAGAGACC ATCTTGGACT GTGCTCACTC      180
GGGTGGAAAG TCGACCCAGG TGCCTGTGTG CTTGACAGAG GCGTGGCTGC ATCCGCGTAG      240
CTGACCTTCA GATGGACTGG AGTTAGCACA TTTGTAGTCA TTTTCCAAC CATTCTTTCG      300
TATCTGAGGT ACGTTTGA CCGTTTGTAG TATGTCACCTC GCGATCTTGA AGCACACTCT      360
TTCATTTACT TAAATATTTT CTGAGCACTC GAG                                     393
```

## (2) INFORMATION FOR SEQ ID NO:1068:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 290 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1068:

```
GAATTCGGCC TTCATGGCCT AAGGTAATGT GTCAGTGGAT GGAAAAGTTT AGAAAAGATC      60
TGTGTAGGTT CTGGAGCAAC GTTTTCCCAG TATTCTTTCA GTTTTGAAC ATCATGGTGG      120
TTGGAATTAC AGGAGCAGCT GTGGTAATAA CCATCTTAAA GGTGTTTTTC CCAGTTTCTG      180
AATACAAAGG AATTCTTCAG TTGGATAAAG TGGACGTCAT ACCTGTGACA GCTATCAACT      240
TATATCCAGA TGGTCCAGAG AAAAGAGCTG AAAACCTTGA TACACTCGAG                  290
```

## (2) INFORMATION FOR SEQ ID NO:1069:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 319 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1069:

```
GAATTCGGCC TTCATGGCCT ACTCGACTCA TATTTTATC ATACATTTC AAGTCAGTTG      60
CTGATGTTAA TCCCATTTCA ATGTGGGGCA GACTCTCGGG GTAATTTCAA AAAGATGTCT      120
CAAACATGTT TGTGTGTGTG TGTGTGTGTG TGTGTGTGTG TGTGTGTGTG TGTGTGTGTG      180
TGTGGAGACA GGGTCTCACT CTATTGCCCA GGCTGGAGTG CAGTGGTGCC ATCATGGCTC      240
ACTGCAGTCT CGACCTCCCA GACTTAAGCA ATCCTTCCCA AATAGCTGGG ACTCCAGGGG      300
CACCCCACTA CAACTCGAG                                     319
```

## (2) INFORMATION FOR SEQ ID NO:1070:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 392 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1070:

```
GAATTCGGCC TTCATGGCCT ACTTCTAAAT GGCAAACAGT TGTCTGAAG GCACTGTCTT    60
TTTCTACCTA GATGTTGGGT GGAAAAAAGC TGCCTTTTAT ATAGAAGTTC    120
TTGGGAATAT TTCTCATATA GTGAGATGAA CAGAATGCAA AAGTTTTCTT CCTGCAGGAT    180
CTCCCAAAT CCTTCTTGGC TTGAATTTT CTCTCACTT TTTCTTTGA AAAGCTTTGT    240
TCCTTTTGCA CCTTGAAAA ATAAGTCTTG TTTGTCCTGA CAGCAGAGTG CAAGCATCTA    300
TTGCATCAAA ATTCCCAAGT GGAATAGAAA ACCAATGGTC CTTTCTGAA TTTCGTTAGC    360
AGTAGCAACA AACATTTCAT TATAACCTCG AG                                392
```

(2) INFORMATION FOR SEQ ID NO:1071:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 421 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1071:

```
GAATTCGGCC TTCATGGCCT ACACAATGGG AATCCAAGGA GGGTCTGTCC TGTCGGGCT    60
GCTGCTCGTC CTGGCTGTCT TCTGCCATTC AGGTCATAGC CTGCAGTGCT ACAACTGTCC    120
TAACCCAACT GCTGACTGCA AAACAGCCGT CAATTGTTCA TCTGATTTTG ATGCGTGTCT    180
CATTACCAAA GCTGGGTTAC AAGTGTATAA CAAGTGTGAG AAGTTTGAGC ATTGCAATT    240
CAACGACGTC ACAACCCGCT TGAGGGAAAA TGAGCTAACG TACTACTGCT GCAAGAAGGA    300
CCTGTGTAAC TTTAACGAAC AGCTTGAAAA TGGTGGGACA TCCTTATCAG AGAAAACAGT    360
TCTTCTGCTG GTGACTCCAT TTCTGGCAGC AGCCTGGAGC CTTTCATCCCT ATACGCTCGA    420
G                                421
```

(2) INFORMATION FOR SEQ ID NO:1072:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 335 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1072:

```
GAATTCGGCC TTCATGGCCT AATCGGTCAC TGATAGTATG TATTTCTTTA GTAAGAATGT    60
GTAAATAATTA CAATGATCTT TTAATAAGAT GATGCAGTTC TGTATTTATT GTGCTGTGTC    120
TGGTCCTAAG TGGAGCCAAT TAAACAAGTT TCATATGTAT TTTTCCAGTG TTGAATCTCA    180
CACACTGTAC TTTGAAAATT TCCTTCCATC CTGAATAACG AATAGAAGAG GCCATATATA    240
TTGCCTCCTT ATCCTTGAGA TTTCACTACC TTTATGTTAA AAGTTGTGTA TAATTGTTAA    300
AATCTGTGAA AGAATAAAAA GTGGATCCCC TCGAG                                335
```

(2) INFORMATION FOR SEQ ID NO:1073:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 362 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1073:

```
GAATTCGGCC TTCATGGCCT AAAAAAATAG GCACAGTTTC AGATGCTTCA GCATATGAGG      60
CATGGATACT TCAATCATTG GCAAAGGGTT CTGCTCAGTA GACTGAATGG AAAAGATGGT      120
CATTGCTCTT TAATGTAATT TTGCAGCTCT CATCAAAGAA AATATCTCCA TGAAATTTAT      180
TGGTAACTGT TTATCTTTGA TCAGTGCAAA CTGAAGTCAA ATATACAAGG TAAACACACA      240
TAAAGATAAG TTCACACATT TCTGTGAATT TTCTAAATGT ACACACTTCT GCAAATTTCTC      300
TAAATTCACA AATAACAAAT TTGCATGCAT GCAAGCATAT GTGCACATGT GCACACCTCG      360
AG
```

(2) INFORMATION FOR SEQ ID NO:1074:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 612 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1074:

```
GAATTCGGCC TTCATGGCCT ACCCAGGTGA TCAATGTTTT CAATGCGATC AGTAATAACC      60
ATGTGCTCAT GAATCAGATA GGAAGTGGC AAATAGGTTT CAGCCTTGAT GTTAATAAGT      120
AACTCCAGTA GGTTCCTGGG TGGCATAACA ATGGAAGTGT TCAGAGGGAT CACATAGCAC      180
TTATCCAGGT TAAGATCTAA ATAGGCTGTA AGTTTCTTGT TAAAGTCATG AACAATGTTG      240
GCAGGATCAC TATCTGCAAA CTCTGGGACA GGCACACTGA TAAATCAAC TTCTCTTCTT      300
CAAAGATTTT AATATTTTCT TCAATTGTCT GGTAGAGAGC AGCTGGGGCA TCTGCAGAGG      360
GCTCATTTAA GATGACATCA TCTTTGATGT ACTTTATTCC ACAGTAGTAC ACGTCATCTG      420
GTTGAAGTGC AAAATATTTG TACAAGTATG CTCCTCCTAG AATAACACCT GCAAGCATAA      480
ATGCTAGTCC AAAGCACATG CACCACCACC ACCCGGCTAA TTTTGTACT TTTAGTAGAG      540
ATGAGATTTC ACCCTGTTGG CCAAGATGGT CTTGAACTCC TGACCTCAAG TGATCCGCCC      600
ACACCACTCG AG
```

(2) INFORMATION FOR SEQ ID NO:1075:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 252 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1075:

```
GAATTCGGCC TTCATGGCCT AAGTTTGTGG TCCTCTGAGA ATTCTCTGAA GGAGGAAATG      60
GGTTGACCTA TTTGGTTGCT ATGAAGTAAA AACAATCTTG TTTTCATTTT TTAGTGAACA      120
TCTGGGTTGC ATTTATTATT TCACATTCTG GAGATTCTGT AAAACCACAA TTTGATAATA      180
TGAGGGTTCA TCAAAGCGGT AATTATTGAG CTATTTTAT AGTTGATTCA AGAATTAGG      240
TGCGGACTCG AG
```

## (2) INFORMATION FOR SEQ ID NO:1076:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 151 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1076:

```
GAATTCTAGA CCTGCCTCGA GTGTGATACC AGCAGCTATG AAGCAAAC TG TATTAACCAA    60
GTCTTTTATT TTCTGTGTTT TGATGCATGA CTTTCATGGC CTTGTCAACC CTAGAGACCC    120
TGCCCCCTCC ATAGCTAGCG AACGTCTCGA G                                     151
```

## (2) INFORMATION FOR SEQ ID NO:1077:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 542 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1077:

```
GAATTCGGCC TTCATGGCCT AGGAAGTAGT CTAAAAAATT AACAGTTATG GTTTTAATAG    60
GATCTGAAAG ACAATCTTTA AAGAAATGGG AGAAATTGGG GGTATCAGTG AACCTATACC    120
AACCTCTCTT TGTACATAAA TATGGTGATG TAGCTAGATA TAAAAATCAG TGTCTTACTG    180
GCACCATTTA CAGTTTAGAA AACAATCTTT TTCTTAAAAA TGCCCATCTG ATTTCTATTT    240
TTAGGAGCTA CTTGGATTGG TATGTATTTT TTCTACGTGA AAATATATGT ACTCTTCACT    300
TTGTGTTCCAG TACTATAATT GCTCATGCAC TCCTTCTCCC CTTTGAGAAC ATTCAGTGAA    360
ATACAACCTC ATCAAAGATT TGCTCAAAGG AGAAGAATCG CATGAGTGTG AAAAGTAGAT    420
GCTCGTAGCC AGAACAGAAA AGGTTACACA TGATCATGGC ACAGAAGATA GGAGGTTTGA    480
CTTGGTGGGC CATAATGTTT ATTATCCTTT TTGAAATAAC AGGGACCAGC AGCACTCTCG    540
AG                                     542
```

## (2) INFORMATION FOR SEQ ID NO:1078:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 574 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1078:

```
GAATTCGGCC TTCATGGCCT AGGTTGCCAT TACTTGTGAT GCCTCTGAAT GTGGAGGCTG    60
ACTCTCCCGT CTCTCTGTCC CTCCTACCCC ACGGGGCCGC AGCAAAAGCC ATCTGGGGCC    120
TTGCACTGGG CCATGTCTTC AGGAAGATTC CTGAAGAGGA GGGCCCGAAA TACTGCGCTT    180
TATAGGTTCC CAGAGTGCCC TAGAACATTC TTAGATACAT ATTTTTTAAA CAAGTAGGAC    240
TCCACCTTAT TTTCTCCAAT AGTCCCCAAG CAGTACAGGT CACTTGAAGA CATAAACATT    300
CTTCTTGTTT GAGGGATCCA CGCCCTTGTT TCAGAAATGA CACCACAGAA GGCTGTGAGC    360
TCCAGGAGCA TGCGTTGGGA TGTCCGGATG ACCGGGGTTT AAAGGTTTTC CTATTCTCGA    420
TAAAGCCTGT GCGCACTGTA CGGGGAGTGG GGGTGAAGCG TGTTCTCTAC ATAGGCAACA    480
```

CAGCCGCCTA AGTCACAAAG TCAGTGGTCG GCCGCTTCGA CCAACATGTG GTGAGCATTC 540  
 CACGGGCGCA TGAAGTCTGG GTGCTGTGCT CGAG 574

(2) INFORMATION FOR SEQ ID NO:1079:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 284 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1079:

GAATTCGGCC TTCATGGCCT AGGGGCCAGG CGGCCCGCGC GAGTCTGGTA TCCTGAGCTT 60  
 CGTGAGTTGA GCGCTGCTGC TCCGCGGTGG AGTCACCGCA CCGCTCCCGG GATCATGGTG 120  
 TTCTACTTCA CCAGCAGCAG CGTTAATTCA TCTGCCTACA CTATTTACAT GGGAAAAGAT 180  
 AAATATGAAA ATGAAGATCT GATCAAGCAT GGCTGGCCTG AAGATATCTG GGAGAGAATA 240  
 TAGAAGACAT CCCAAAGGAA GTGCTGATGG ACTGTGCGCT CGAG 284

(2) INFORMATION FOR SEQ ID NO:1080:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 359 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1080:

GTGAACACCA GAAAATACCC TGCAATTCAG CAGAACCAAA ATCCATACCT GCCCTTTCAA 60  
 TGGAACACA GAAACTTGGT TCAGTTTGT CTCCAGAATC GCCAAAACCT ACTCCTCTTA 120  
 CTCCCCTGGA GCCTCAGAAA CCTGGCTCTG TTGTTTCTCA TGAGCTACAG ACACCTCTTC 180  
 CTTNTCCTGA GCCTTCAAAA CCTGCCTCTG TTTCTTCTCC TGAACCTCCA AAATCAGTCC 240  
 CTGTTTGTGA GTCTCAGAAA CTTGCCCTG TTCCTTCTCC AGAACCACAG AAACCTGCCC 300  
 ATGTATCTCC TGAGTCAGTA AAGGNTACTA TTNGTAATCC CAAACCCAG ATTCTCGAG 359

(2) INFORMATION FOR SEQ ID NO:1081:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 474 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1081:

GCCCCGCAGA TGGGAAACGC ATCATATTCT GATTCTTACC TGGAAGGAAT TTTGTTGAAA 60  
 GGGGTTTTCA CCTGTGAGCC TTGGTCTGTC TCGGTAGGGT GGTCAACTTC AGTGGACTGT 120  
 GGTGGTTTC AGAGCGCCTG GCTGAGGAGT TCCACTGAGG GGAGCACTGG AGCAGCCCTT 180  
 TGGCAGAGGC TGAGGAGGGA GATGGACCAG CCCACGCCTG GCACCTGGCT CCATGGCATA 240  
 AGGAAAGGGA GATGCTGGCC TCTGTGCTCC TGCTGTCTTT TCCTGTTTCT GTTTGCGTTT 300  
 GACTTAGTAG CAACCGACAG AGTGGCAAGG GATTGGTCT TCAGCAGTAG ACATCCTTCC 360  
 ACCCCTGCCC TCAGCCAAGT CTCTTGCTGC CATGCCAATG CTATGTCCAC CCTTGCCCCCT 420

CGGCCCAAGA GTGTCCAGCG GTGGCCCACT TTTTCCTCCC ACCACAACCT CGAG

474

## (2) INFORMATION FOR SEQ ID NO:1082:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 505 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1082:

GAATTCGGCC TTCATGGCCT AATGTGTGTG GCACAAAGAA GAAAGTGGAC TCTACACTGT	60
GTTAGTTAGG AAAACCAGAA ATTGGGCCAA ATTGCCTGTT TAGTGGGAGA GATANCTTTT	120
GAGAGCTGTG ATCCCGCTGG TGTGGCTGGC TCTGGGCAGA TATTTGTATC TGAAATGACT	180
CATGCTGTGG GACCCTTCCT GAGATCTAAC ACTTACAGTG GTTTGATCAG AAATTGCACC	240
ATGCTTGCCA AGCAACTTTT GGAATAAAG TTGCTGCCCA CGTATATCAG GGAAGAATA	300
TATATATATA TATATATAGT ACCTATCTTA GCATCTGATT TGTATGACCA TTAATTCAT	360
GTAAATAAAT AAATTGGCTT TCCAGCTTAA ACTTCAATTT CTTGTATATT ATATGATCAT	420
GAGACAACCT CCCTGGGCTG ATCAACAGCA GGACGCTAA AAGATTGAGT ATCTGAGTCA	480
GGAAGGTAGA GGGCCAAACC TCGAG	505

## (2) INFORMATION FOR SEQ ID NO:1083:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 481 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1083:

GAATTCGGCC TTCATGGCCT ACTACTATTC AGAGACAACA GTGACACGGA CCTATGTGAT	60
GCTGGCCTTA GTGTGGGGAG GTGCCCTGGG CCTGGGGCTG CTGCCTGTGC TGGCCTGGAA	120
CTGCCTGGAT GGCCTGACCA CATGTGGCGT GGTATTATCCA CTCTCCAAGA ACCATCTGGT	180
AGTTCCTGGC ATTGCCTTCT TCATGGTGTG TGGCATCATG CTGCAGCTCT ACGCCCAAAT	240
CTGCCGCATC GTCTGCCGCC ATGCCAGCA GATTGCCCTT CAGCGGCACC TGCTGCCTGC	300
CTCCCACTAT GTGGCCACCC GCAAGGGCAT TGCCCACTG GCCGTGGTGC TTGGAGCCTT	360
TGCCGCCTGC TGGTTGCCCT TCACTGTCTA CTGCCCTGCT GGTGATGCCC ACTCTCCACC	420
TCTCTACACC TATCTTACCT TGCTCCCTGC CACCTACAAC TCCATGATCA ACCCTCTCGA	480
G	481

## (2) INFORMATION FOR SEQ ID NO:1084:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 389 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1084:

GAATTCGGCC TTCATGGCCT ACCATTTTTA TTAAACCCAA ATCCATGGAA AATATCATGG	60
---	----

AAATGAATAA	GCGTCTAACA	GAAGAACAAG	CCAGAAAAAC	ATTTGAGAGA	GCCATGAAAC	120
TGGAACAGGA	GTTTACTGAA	CATTTCACAG	CTATTGTACA	GGGGGATACG	CTGGAAGACA	180
TTTACAACCA	AGTGAAACAG	ATCATAGAAG	AACAATCTGG	TTCTTACATC	TGGGTCCGG	240
CAAAAGAAAA	GCTATGAAAA	CTCATGTTTC	TCTGTTTCTC	TTTCCACAA	TTCCATTTTC	300
TTTGGCATCT	CTTTGCCCTT	TCCTCTGGAG	TCTTTCTTGA	GTACTGATTT	CATGTTGAAT	360
TGTATCCAC	ACATCATGGT	CATCTCGAG				389

## (2) INFORMATION FOR SEQ ID NO:1085:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 350 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1085:

GCGATTGAAT	TCTAGACCTG	CCTCGAGACC	GCCTACGAAT	GGAAATCCAT	AAGAATGAGG	60
CTTGGCTCTC	TGAAGTCGAA	GGCAAAACAG	GTGGGAGAGG	AGACAGAAGA	CATAGCAGTG	120
ACATAAATCA	TCTTGTAACA	CAGGGACGAG	AAAGTCCTGA	GGGAAGTTAC	ACTGATGATG	180
CAAACCAGGA	AGTCCGTGGG	CCACCCAGC	AGCATGGTCA	CCACAATGAG	TTTGATGATG	240
AATTTGAGGA	TGATGATCCC	TTGCCTGCTA	TTGGACACTG	CAAAGCTATC	TACCCTTTTG	300
ATGGACATAA	TGAAGGTACT	CTAGCAATGA	AAGAAGGTGA	AGTACTCGAG		350

## (2) INFORMATION FOR SEQ ID NO:1086:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 276 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1086:

GCTCCACCAG	CTACTGAGAA	AATGGCCTGT	AAAGATCCAG	AAAAACCCAT	GGAGGCCTGT	60
GCCTCAGCAC	ATGTGCAACC	CAAGCCTGCC	CCTGAAGCCA	GTAGCCTAGA	GGAGCCCCAT	120
AGCCCAGAAA	CAGGGGAGAA	GGTAGTAGCA	GGAGAGGTAA	ACCCACCCAA	TGGCCCTGTG	180
GGGGACCCAC	TGAGCCTCTT	GTTTGGGGAT	GTGACATCCC	TGAAAAGCTT	TGATTCATTG	240
ACAGGTTGTG	GTGACATAAT	AGCAGAACAA	CTCGAG			276

## (2) INFORMATION FOR SEQ ID NO:1087:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 295 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1087:

GCAGAGACTT	AAAGGGTTAA	TAAAAATTGT	AAAGCCAGCA	GAGATTCCAG	AACTAAAAAA	60
GACTGAAACT	CAGACTACAG	GTGCAGAAAA	CAAAGCTAAA	AAGCTTACAT	TGCCTCTATT	120
TGGTGCCATG	AAAGGAGGAA	GCAAATTCAA	ATTAAAAACT	GGAACAGTAG	GGAAGTTACC	180

CCCCAAGCGT CCAGAACTCC CTCCAACCTCT AATGAGAATG AAAGATGAGC CTGAAGTAGA	240
AGAGGAGGAG GAAGAGGAAG AGGAAGAAGA GAAAGAAAAG GAGGAGCAGC TCGAG	295

## (2) INFORMATION FOR SEQ ID NO:1088:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 339 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1088:

GAAATGAGGG TCCCTGAAGA AGCTCTTAAG CATGAGAAGT TTACCATTCA GCTTCAGTTG	60
TCCCAAAAAT CTTCAGAATC AGAATTATCC AAATCTGCAA GTGCCAAAAG CATAGATTCA	120
AAGGTAGCAG ACGCTGCTAC TGAAGTGCAG CACAAAACCTA CTGAAGCACT GAAATCCGAG	180
GAAAAAGCCA TGGATATTTT TGCTATGCCC CGTGGTACTC CATTATATGG GCAGCCGTCA	240
TGGTGGGGGG ATGATGAGGT GGATGAAAAA AGAGCTTTCA AGACAAATGG CAAACCTGAA	300
GAAAAAAACC ATGAAGCTGG AACATCAGGG TGCCTCGAG	339

## (2) INFORMATION FOR SEQ ID NO:1089:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 433 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1089:

GAATTCGGCC TTCATGGCCT ACTCAAGAAT ACAGGTCTTA CTCGTATAGT CTTTGAACAA	60
TAGGCTGTGT GACTAAAAGA GAGACACAAT CAATTGCTTC CCAGTCAAGA AGCCAGAAAA	120
GCTTCAAAAC CTTTCCCCCT CCCTACTCCT TGCCACCGCA CCTAAAAAAA AGAGAAATCT	180
TTTAAGTGTT TAAAATCTGT AGGAGTCTTA TGAAGAAGCA GCTTTATGTG TATTCTTTAT	240
GGCATAATAT TAATGCATGA AAATCTGTTG CTTTTTAAA AATTGTGGCA AAATATACAT	300
AACATAAAAT TTATCATTTT AGCTATTTT AATATACAAT TCACTAGCAT TAAGTATTAA	360
TACATTCACA GCACCATTGC AACCATGGCC ACCATCATCT CCAGAACTTG ATCTTCTTCA	420
ACGCCCACTC GAG	433

## (2) INFORMATION FOR SEQ ID NO:1090:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 319 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1090:

GACTGGGTCC ATGGGAGCAA GATTAGTGGC TGCTAAACTT GAACCGAAAA GCTTCAAACA	60
TACCCATATA GATAAACCAG ACTGCTCAGG GCCCCCATG GACATAAGTA ACAAGGCTTC	120
TGGGGAGATA AAAATGCGCT ATACTTACTC TGTTAGCTTC GAGGAAGATG ATAAGATCAG	180
ATGGGCGTCT AGATGGGACT ATATTCTGGA GTCTATGCCT CATACCCACA TTCAGTGGTT	240



TAGCATTATG AATTCCTGG TCATTGTTCT CTTCTTATCT GGAATGGTAG CTATGATTAT 300  
GTTACGGACA CCACTCGAG 319

(2) INFORMATION FOR SEQ ID NO:1091:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 328 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1091:

GTGCAAATTG AGCACATCAT TGA AACATT GTTGCTGTCA CCAAAGGACT TTCAGAAAAA 60  
TTGCCAGAGA AGTGGGAGAG CGTGAACTC CTGTTTGTGA AAAGTGAAG ATCGGCTGCA 120  
CTTCCCATCT TTTCCTCGTT TGTCAGCAAT TGGGATGAAG CCACCAAAAG ATCTTTGCTT 180  
AATAAGAAGA AAAAAGAGGC AAGGAGAAAA CGAAGAGAAA GAAATTTTGA AAAACAAAAG 240  
GAGAGGAAGA AGAAGAGGCA GCAGGCTAGG AAGACTGCAT CAGTTCTTAG TAAAGATGAT 300  
GTGGCACCTG AAAGCGGTGA TACTCGAG 328

(2) INFORMATION FOR SEQ ID NO:1092:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 109 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1092:

GATCATGAAG TCCATCATCC CAGTGGTCAT GGCTGGCATC ATCGCCATCT ACGGCCTGGT 60  
GGTGGCAGTC CTCATCGCCA ACTCCCTGAA TGACGACATC AACCTCGAG 109

(2) INFORMATION FOR SEQ ID NO:1093:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 388 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1093:

GAATTCGGCC TTCATGGCCT ACTGGAATTC ATAAGTCTAA ATGGTTCTAT GAGTCTAAAA 60  
TTAAAGTGTT AGCAGGGCTG GGCTTCCTTT GGAAGCTCTA GAGAATGATC TGTTTTCTATA 120  
CCTTTTCCAG CTGTATGAG CTGACTACAT TCCTTAGCTC ATGGCCCTGC TGCCACAGC 180  
TTCAAATGAG ACAACACCAA GTTGAGTCCT CTTTAGATCA CATCAATTTA AATCTCCTAC 240  
TATTCTATT TCCTGTGAC TCTCCTATGC ATCCTTCCTT CTCTCAAAG GATCTTTGTG 300  
ATTATACTGG GCCCTCTGAA GAATCCATGA TAATCTTATC TCAAGGTGCT TAAGTTAATC 360  
ACATTACAA GATCTCCTTT TCCTCGAG 388

(2) INFORMATION FOR SEQ ID NO:1094:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 461 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1094:

```
GAATTCGGCC TTCATGGCCT AGGTGGCACA TGCCTGTGGT CCCAGTTACT CGGGAGGCTG      60
AGGTGGGAGG ATTGCTTGGG CCCGGGAGGT CAAGGCTGCA GTGAGCCGTG ATCTTGCCGC      120
TGTACTCCAG CCTGGTGATA GCGAGACCCT GTCTCAAAAA AATGCTTTTA GGGAAATTAA      180
TATGTCCTGT GCCTGTTTAA TCATTGAAAA CATTTTAATA TTTTCAGAGC CATAGAGGGC      240
AGTGAAAAAC AGAGTAGCAG AATTGATTAT ACCAGTACTA TTTATCCAAT GGCTAATACA      300
AATAAGACTC TCAGGGATAA TTCACACGTG CTTCCAAGAA CACTAGATGG CACCAATTAT      360
TTAGGATTCA GACTACCTCA GGGAACAGCT GTCTTCATTG AACAAATATT TATTAAATAA      420
TGAACAAAAC AAAAATATCT GTCATTGTGG AGCAGCTCGA G                                461
```

(2) INFORMATION FOR SEQ ID NO:1095:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 317 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1095:

```
GAATTCGGCC TTCATGGCCT AAACCTATGC AGATGCCTGT GATGAGTTCC TGGATCCCAT      60
TATGAGCACA CTGATGTGTG ACCCTGTGGT GCTGCCATCT TCCAGAGTCA CTGTGGATAG      120
ATCCACCATT GCAAGACATT TGCTCAGTGA CCAACAGAT CCCTTTAACC GTAGTCCCCT      180
CACCATGGAC CAGATCCGGC CAAACACAGA ACTAAAAGAA AAAATCCAAC GGTGGCTTGC      240
AGAGAGGAAA CAACAAAAGG AGCAACTTGA ATAGATACTG TGAAC TAACC AAACCAAAAC      300
CAACCCCGA TCTCGAG                                317
```

(2) INFORMATION FOR SEQ ID NO:1096:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 360 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1096:

```
GCTGCAGCCA ACGCGCAGCT CCACTGGAAG AGGATGGAGA ACCTCAAGGA GGAGGAAGAT      60
GACGACTCCT CCACAGCCTC AGACAGCGAT GTTCTCATCC GGGACAAC TA CGAGCGGGCA      120
GAGAAGCGGC CCATCCTGTC TGTGCAGAGA CGTGGATCTC CCAACCCGTT TGAAATCACA      180
GACCGGGTGG AAATGGGACA AATGGCCTCC ATGTTCTTCA ATAAAGTGGG GGTC AACTTG      240
TTCTATTTCT GCATCATCGT TTACCTGTAT GGAGACCTCG CCATCTATGC TGCTGCCGTG      300
CCCTTCTCCC TCATGCAGGT GACCTGCAGC GCCACTGCA ATGACTCCTG GCGGCTCGAG      360
```

(2) INFORMATION FOR SEQ ID NO:1097:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 311 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1097:

GAATTCGGCC	TTCATGGCCT	AGTGAGCCAC	CGCACGGGGC	CTAACGATGA	TGAGAATTTG	60
ATGTGACATC	TGCAGGATCC	CCAGCTAGTC	AGCAGCATCT	AGAGGGCTAG	AACTCTGGCC	120
AGCTGACTGG	GCCTTTTGCT	AACTGTTTTC	TGTCCCTCT	GTGCCGGGGT	GTCACTGAGC	180
TTTGC GGAC	AGGCTGGTCT	GTCGTGCCTT	CAGCTCAGGG	AATGTGGCTC	CCGAGCATAG	240
GGCTGGACTG	AGAGGCGTTA	GGTGAGCCAG	AGAAGGCCTC	AGACACAGGG	CTTAGAGAGG	300
GCTCCCTCGA	G					311

(2) INFORMATION FOR SEQ ID NO:1098:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 436 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1098:

GAATTCGGCC	TTCATGGCCT	ACCTGCAGCT	CTACAATATA	TTTTCAAAC	GCTTGATATT	60
GAGAACAAAG	GATACCTGAA	TGTCTTTTCA	CTTAATTATT	TCTTTAGGGC	CATACAGGAA	120
CTAATGAAAA	TCCATGGACA	AGATCCTGTT	TCATTTCAAG	ATGTCAAGGA	TGAAATCTTT	180
GACATGGTAA	AACCAAAGGA	TCCTTTGAAA	ATCTCTCTTC	AGGATTTAAT	CAACAGTAAT	240
CAAGGAGACA	CAGTAACCAC	CATTCTAATC	GATTGAATG	GCTTCTGGAC	TTACGAGAAC	300
AGAGAGGCTC	TTGTTGCAAA	TGACAGTGAA	AACTCTGCAG	ACCTTGATGA	TACATGATCT	360
CTGAAAGACT	AGACTGTCTT	ATATTATGAG	ATACTTGAAT	GCTGCATGTA	AAGCCTTTAA	420
AGCAAAAAAC	CTCGAG					436

(2) INFORMATION FOR SEQ ID NO:1099:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 291 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1099:

GAGAAGATGC	AAGTGGACCA	GGAGGAACCA	CATGTTGAAG	AGCAACAGCA	GCAGACACCA	60
GCAGAAAATA	AGGCAGAGTC	TGAAGAAATG	GAGACCTCTC	AAGCTGGATC	CAAGGATAAA	120
AAGATGGACC	TACCACCCCA	AGCCAAGAAG	GCAAAAGTGA	AGACCAGTAC	TGTGGACCTG	180
CCAATCGAGA	ATCAGCTATT	ATGGCAGATA	GACAGAGAGA	TGCTCAACTT	GTACATTGAA	240
AATGAGGGTA	AGATGATCAT	GCAGGATAAA	CTGGAGAAGG	AGCGGCTCGA	G	291

(2) INFORMATION FOR SEQ ID NO:1100:

- (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 101 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1100:

```
GAATTCGGCC TTCATGGCCT AGTCATTTTA TAGGTTAAAA AAAGGTCAAA TTGTGACAAT    60
TTCATATGGT ACAATATAAA ATTATATTAA ATATACTCGA G                          101
```

(2) INFORMATION FOR SEQ ID NO:1101:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 492 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1101:

```
GAATTCGCCT TCATGGCCTA AGAAATACAT AGATCAAGTA AACTCCAAC TACTGTAGCT    60
GGAATTTGTA AACTAAGTTT GTAAGACCTC TTTTATTTCC TATGGAGTTA TTCTTTAATT    120
TACAGTTTAT TCTGTAAGTT GGGAAGTAAA ATAGAGAAAA TAATAAATCT AGATGTTCTC    180
AGTGTCTTAT TCAGGAACTT TTTATCCCTC CTCACTAAGG AATTCCCACT GTGACTTTAA    240
AATAGAACTA AATTACTTGT GTGCATGTAT ATGTCTGTAT TTTTACACA CATGCAAAAA    300
TATACATTGG GGGCACGTGT GTGAGAGATA TGAATGTGTG CTTATATAAA AATAGATAAA    360
GGTAACCGAA TGTATTGTAG AAACATGATT TATTTAGTTG AGGGTATTGG AGTTACTTTC    420
TCATTGTCTC TGTTGTATAA ATACACCAAA TTAATCATTG TGTTATCTTA TGTTAAAGG    480
CTAGCTCTCG AG                                     492
```

(2) INFORMATION FOR SEQ ID NO:1102:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 343 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1102:

```
GAATTCGGCC TTCATGGCCT AGGCCTGCGT TAATACTCTT AATTATAGAA ACAATCCTTA    60
ATTAATAAAC AAGTCCTTTC ATTGGAAAAA GAACTAATAC ATTTTGTCTC CTCAGTCAAA    120
ATTCTGTTTT TGTGGTTAGA GTAATAAAAT GGTAACACCT AGGGTCTGCC ACATCATGG    180
TTCTCACTCT GGATTCATTC CCTACCACAT CCTTATTTC CTCTCTTCC CCATTCCCTC    240
ACTCACCTC CTCCTTTCCT TCCCTCACTC ACCCTCCTCT TCCCCATTCC CTCCTCACC    300
CTCCTCCTTT CCTTCCCTCA CTCACCCTCC CCCTTCTCTC GAG                          343
```

(2) INFORMATION FOR SEQ ID NO:1103:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 282 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1103:

GAATTCGGCC	TTCATGGCCT	AACCGGGCAA	AAAAAAAAAA	AAATCTTAA	AGCACTAACT	60
TACTATCAAA	TCTCAAGAAA	CAGAAGCAAT	TTCAAAAAAT	CAATACTATC	CTTTTGGTCA	120
GTAACACTTT	CTTCATTCTT	AATGTATGAG	AACAATAAGG	ACATTTTAGC	TCCTTTACTC	180
TTCTTTCATT	TAGTGACTTC	CACATTTCTC	TCACCATTTT	TCCAGCCTCT	GGGTGTGGTT	240
CTGATGAACC	TTAAACTTGA	AAGGCACAGG	CCAGAACTCG	AG		282

(2) INFORMATION FOR SEQ ID NO:1104:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 205 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1104:

GCGATTGAAT	TCTAGACCTG	TCTTACGCTT	CCCTTCCTAA	GCCTTTGTCT	ACTCTGCTTT	60
GTCTGCTTTT	ATGCTTCTCT	CTCTTTTGTC	TGAACTGGTC	TCTGTCCTCG	TCCATGCTTC	120
AAGTCCTAAT	TCAAATGCCA	CTGTCTTTAT	GAAGGGCTCC	CTGATTGTTT	CAACCAAAAT	180
AAGCTTTTAT	TCCTTTGAAC	TCGAG				205

(2) INFORMATION FOR SEQ ID NO:1105:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 249 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1105:

GAATTCGGAC	TTTCATGGCCT	ACGTTTTTAT	TACAAATATT	ACATTAAACT	AAAGCTCACA	60
ACTGTTACTA	TGCATCAGGA	ATTAACAGTC	ATTTCTCATT	TGTGTTATTG	TCCTATTGGA	120
TCACATATAG	TGACTATCTC	TTTATGGGTT	AAATATCAGT	TTCTTGGCCA	GAATTCAAGA	180
TCTGCCCTTA	ACNAATCCTA	CTTCTCCAG	TACCCTTACA	GCACTCCTAC	CCTACTAGTA	240
ACCCTCGAG						249

(2) INFORMATION FOR SEQ ID NO:1106:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 237 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1106:

```

AATTCTAGAC CTGCCTCGAG ATTGTCTGCC AGTTTAATTC TTAAAACTC AGTTTAGCTG      60
TCCTTTTCTT TGGAACTCTT TCCCTAATCT TCCCCACCAC CTGTTTCATCA ACATATATAG      120
AAGCACATTT ACTCTCTCAT TCTCTCTCTT TCTCTCTCCA AGTCTATGTT AGGTGTTTTTA      180
GCGTTTATCA TAGGTTTATG TTTACTTATC TCCCCACTAG TCTATGAAAT CCTCGAG        237

```

## (2) INFORMATION FOR SEQ ID NO:1107:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 313 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1107:

```

GATTTATTAT AAAGCTGCAA AGAAGCTGTT GCACTCAGGA ATGAAAATTC TTAGCCAGGA      60
AAGAATTCAG AGCCTGAAGC AGAGCATAGA CTTTCATGGCT GACTTGCAGA AAATCGAAA      120
GCAGAAAGAT GGAACAGACA CCTCACAGAG TGGGGAGGAC GGAGGCTGCT GGCAGAGAGA      180
GAGAGAGGAC TCTGGAGATG CCGAAGCACA CGCCTTCAAG AGTCCCAGCA AAGAAAATAA      240
AAAGAAAGAC AAAGATATGC TTGAAGATAA GTTTAAAAGC AATAATTTAG AGAGAGAGCA      300
GGAGAGCCTC GAG                                     313

```

## (2) INFORMATION FOR SEQ ID NO:1108:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 467 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1108:

```

GCGAGAACAC CATCACCATG ACAACCAGTC ACCAGCCTCA GGACAGATAC AAAGCTGTCT      60
GGCTTATCTT CTTTCATGCTG GGTCTGGGAA CGCTGCTCCC GTGGAATTTT TTCATGACGG      120
CCACTCAGTA TTTCACAAAC CGCCTGGACA TGTCCCAGAA TGTGTCCTTG GTCAGTCTG      180
AACTGAGCAA GGACGCCCAG GCGTCAGCCG CCCCTGCAGC ACCCTTGCCT GAGCGGAACT      240
CTCTCAGTGC CATCTTCAAC AATGTCATGA CCCTATGTGC CATGCTGCCC CTGCTGTTAT      300
TCACCTACCT CAACTCCTTC CTGCATCAGA GGATCCCCCA GTCCGTACGG ATCCTGGGCA      360
GCCTGGTGCG CATCCTGCTG GTGTTTCTGA TCACTGCCAT CCTGGTGAAG GTGCAGCTGG      420
ATGCTCTGCC CTTCTTTGTC ATCACCATGA TCAAGATCGC GCTCGAG        467

```

## (2) INFORMATION FOR SEQ ID NO:1109:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 74 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1109:

```

GAATTGCGGA AACGGTCGTT CCACTCGCTC CAATGTGGCC CCCAGGCACC TACCTGATAG      60
CCATATGGGT CGAG                                     74

```

## (2) INFORMATION FOR SEQ ID NO:1110:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 427 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1110:

```

GAATTCGGCC TTCATGGCCT AGGAATTTAG GAACCAAGAT ACTGGGGTGT TATTGTTTCT      60
AAGCTCTTTC AGTGAACAGA TCTAGGAAAT ACATGTGTGT CCTAATCCAT GAATACACAC      120
TAAAATATAA TTATTCTGT ATCTATGTCA AGCTAAACCT AAGTTCACAT TGAGGTTTCT      180
GACTTTAATA CAGTCCCACA AGGTTTCGTC TAGCTTTCCT TCCTTGCATA CCTTTGACTT      240
TCCTCTCCAG CTGTGGGAAA CTGGGCTCTC TCCATCCACC ACCCCTTCAC TATTGTTT      300
ACCCCTGTAC ATATATAAAG CAGCGTTGGA ACTGTCAACC TGTGTCCCAT GAGAAACTTT      360
ACCACTAGA GTACAGCGTT TATGCAGTTC TTTTGTAGT TTTTATAGAT TATAGCCAAA      420
ACTCGAG                                         427

```

## (2) INFORMATION FOR SEQ ID NO:1111:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 372 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1111:

```

GGTGAACCCG AATCACCAGT GGATGTGGAT AATTCTAAAA ATAGTTGTCA AGACTCAGAA      60
GCAGATGAGG AGACAAGTCC AGGTTTTGAT GAACAAGAAG ATGGTAGTTC CTCCCAAACA      120
GCAAATAAAC CTTCAAGGTT CCAAGCAAGA GACGCTGACA TTGAATTTAG GAAACGGTAC      180
TCTACTAAGG GCGGTGAAGT TAGATTACAT TTCCAATTTG AAGGAGGAGA GAGTCACACT      240
GGAATGAATG ATTTAAATGC TAACTACCT GGAAATATTT CTAGCCTGAA TGTAGAATGC      300
AGAAATTCTA AGCAACATGG AAAAAAGGAT TCTAAATCA CAGATCATTT CATGAGACAG      360
CCCAAACCTCG AG                                         372

```

## (2) INFORMATION FOR SEQ ID NO:1112:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 108 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1112:

```

GAATTCTAGA CTGCCTCGA GCTATACCTG TATCCAGTCT TGATGCACAC CAGGCTGGGC      60
ACTTTCAGAA AACTACCTCT AACCTCCAGG GTTCCCTCAT CACTCGAG                     108

```

## (2) INFORMATION FOR SEQ ID NO:1113:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 382 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1113:

```

GAATTCGGCC TTCATGAAGA TTGAGAAGAA GGAGGAAAAA AAGCCTGAAG ACATTAAGAA      60
GGAAGAAAAA GACCAGGATG AGCTGAAACC CGGACCTACA AATCGGTCTA GAGTCACCAA      120
ATCAGGAAGC AGAGGAATGG AGCGGACGGT CGTGATGGAT AAATCGAAAG GAGAGCCCGT      180
CATTAGCGTG AAAACCACAA GCAGGTCCAA AGAGAGAAGC TCCAAGAGTC AGGATCGCAA      240
GTCAGAAAGC AAAGAAAAGA GAGACATCTT GTCGTTTGAT AAAATCAAAG AACAAAGGGA      300
GAGAGAGCGC CAGAGGCAGC GGAACGGGA GATCCGCGAA ACGGAGAGGC GGCGGGAGCG      360
CGAGCAGCGG GAGCGTCTCG AG                                         382

```

(2) INFORMATION FOR SEQ ID NO:1114:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 253 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1114:

```

GAATTAGCAA AGGAAATCTC AGATTGCATT TCCAAAGATG GTTGCTAGCT GCTGCCGTTT      60
CCTTTGCTAT TTCTGTCGAA TTAGCCGCA AAATCAGAAG GCCATGTTG AGCATCTGAG      120
TTATCTTCTG GAGAATAGCA GTGTTGGCCT AGCCTCCCCG TCGATGAGGG GATCCACCCC      180
GCTGGATGTG GCAGCTTCTT CTGTGATGGA CAACAATGAG TTAGCGCTGA GCTTAGAGGA      240
ACCAGACCTC GAG                                         253

```

(2) INFORMATION FOR SEQ ID NO:1115:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 76 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1115:

```

GAATTTTTTT TTTTTTAA GAAAGAAAAC TAGGGCGATG CAATGTCCAG ACAGAAGCCG      60
GGGGCCGGGG CTCGAG                                         76

```

(2) INFORMATION FOR SEQ ID NO:1116:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 70 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA



## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1116:

GAATTCGGCC TTCATGACGA CCGCGTCCAC CTCGCAGGTG CGCCAGAACT ACCACCAGGA	60
CACCCTCGAG	70

## (2) INFORMATION FOR SEQ ID NO:1117:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 526 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1117:

GAAAATGAAA AGTTCTGTCT TTGATGAAGA CAAAACCTTT GTAGCAGAAA CATTGGAAAT	60
GGGTGAGGTT GTTGAAAAGG ATACAACAGA ACTCATGGAA AACTTGAGG TAACCAAGCG	120
AGAGAAATTA GAGCTGTCAC AGAGACTGTC TGATCTTTCT GAACAATTGA AACAGAAACA	180
TGGTGAGATT AGTTTCTAA ATGAAGAAGT TAAATCTTTA AAGCAAGAGA AAGAACAAGT	240
TTCATTGAGA TGTAAGAGC TAGAAATCAT TATTAACCAC AACAGGGCAG AAAATGTACA	300
GTCATGTGAT ACTCAAGTAA GCTCTTTATT AGATGGAGT GTGACTATGA CAAGCAGGGG	360
TGCTGAAGGA TCAGTTTCTA AAGTAAATAA AAGTTTGGT GAAGAATCAA AAATAATGGT	420
GGAAGATAAA GTTCTTTTG AAAATATGAC TGTGGAGAA GAAAGTAAGC AAGAACAGTT	480
GATTTTGGAT CACTTACCAT CTGTAACAAA GGAATCTTCA CTCGAG	526

## (2) INFORMATION FOR SEQ ID NO:1118:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 190 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1118:

CGATTGAATT CTAGACCTGC CTCGAGCCGA CCTACTCCAC AGCTGTCCTG ACTGTGTAAG	60
CGAGATGATG ATTAGTGATC AGACGAAAGG ATTCCTGTCA TTGGTAACCC TCTCAAAGTA	120
TTTGAAAAC AGTTCAATTT TCATCTATTT CAGAAGCAG CCGTGGTGTC TATTGAGGCT	180
CACCCTCGAG	190

## (2) INFORMATION FOR SEQ ID NO:1119:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 331 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1119:

GAATTCGGCC TTCATGGCCT ACCATCCTGC ACTCAACCAA TCATCTGATG CTGACTCAGA	60
AGCTCTGTTT GGAGTACCTA ATGATAAGAA TTTACTGTGG GCTTATGCTG TTATCGGTAC	120

```

TTACATGTTT TTAGTTTCTG TCATTTTTTT TTGTCTGTTT TTAAAGAATA GCTCAAAGCA      180
AGAAAAAGCA AGAGCATCTG CTGAGACATT TCGAAGAGCA AAATATCACA ACGCCCTTCT      240
TTGTCTCCTT TTTCTGTTCT TCTTTTTTTA TGTTGGAGCT GAGGTAACAT ATGGCTCTTA      300
TGTTTTCTCA TTTGCAACCA CCCATCTCGA G                                     331

```

## (2) INFORMATION FOR SEQ ID NO:1120:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 352 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1120:

```

GAATTCGGCC TTCATGGCCT ACAGATTGTC ATCTTTACAA CCAGAAGCTC AGGGAGAAGT      60
TGAAGGAGGA GGAGAACACA GTGGGTATGT TCAGATTGCT TTTGGGTACC CTTGATCCAG      120
CCACATTGTC TACCCTAGAT GGGTGCTCAT GGTACTTCTT GTGGGCATTT CAATAATAGG      180
TTGAGTTGTA TACCGTCTGT CTTTACACTA CATTATGAAA ATGAGATTAT TAAATAAGAA      240
TTTTGATGTA GCTGATAAGC TAGTAGAATT GGCACATGAT CCCTTTTATA CCCAGCCCTC      300
CTGTCTGGTG TGCTTGAGGT AATAATAACC CCTTTTATAC CCAAACCTCG AG             352

```

## (2) INFORMATION FOR SEQ ID NO:1121:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 484 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1121:

```

GAATTCGGCC TTCATGGCCT ACCAATCTCT TTTACTGAGC ACAATGTGGG TAAAACTGCT      60
CTCTATAGTA GCAGAATTTT GTTTTCCCTT TTTCTAGTT ACTGATGAAG AGACAGCTTC      120
AGATGCTCTG GAGAGAAACT CTCTATCCTC TCAAGACCCA CAGCAGCCCA CCAGTACTGT      180
CTCAGTAACG GAAGATTCTA GTACATCGGA GATTGACAAG GAAGAGAAAG AACAAACCAC      240
TCAAGATCCT GACTTGACCA CCGAAGCAAA TCCTCAGTAT TTAGGACTGG CAAGAAAGAA      300
AAGTGGCATC CTGCTGCTCA CGCTGGTGTC CTTCTCATT TTCATACTCT TCATCATAGT      360
CCAGCTCTTC ATCATGAAGC TGAGGAAAGC ACATGTGATA TGGAAGAGAG AAAACGAAGT      420
TTCAGAACAC AACTAGAAA GTTACAGATC AAGGTCAAAT AATGAAGAAA CATCATCGCT      480
CGAG                                     484

```

## (2) INFORMATION FOR SEQ ID NO:1122:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 247 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1122:

```

GAATTCGGCC TTCATGGCCT ACTTATGTTT TTCTCATTG TTGACCTAAA TGATCTTTAT      60

```

CCAAACTATT CCAAATCTG AATTCTGGG TCCTTCTTTC TTAAAAATAT TCTGTTCAAT	120
ATTAAACAAA CAAACGTTTG AGAACATGAG TAACCTTTTG ACTTTATCCC GTATCTGTTT	180
GCTAATGTTC TGTCCATGT CTTTCTTGTC AGAACACACT GTTGCAGCAG CTAGGAGTGC	240
ACTCGAG	247

## (2) INFORMATION FOR SEQ ID NO:1123:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 276 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1123:

GAATTCGGCC TTCATGGCCT AGGAGGAAGC TAATAAGAGA CTGTCAAGAT TGTATACCTT	60
CTTGGTTTCT TTAAAGAATT TGTTCGCTTT CTACTATTAC AGCAAAGCAG CATTGTTGTTA	120
CTGACTGCCT AAAATCACTT AATCTCAGGT GAACGCATCA CTTGCCAAAC TGTTGGAATG	180
CTATTTGTGT TTTGTTGCAC TGTTTTTTC GTTGTGTTGT TTGTTTATTT GGTGCGCTTT	240
TTGGAGAGGG AAATTTGGAA ACGGGACACA CTCGAG	276

## (2) INFORMATION FOR SEQ ID NO:1124:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 252 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1124:

GAATTACTAG CAGAGATCAG TGCTATAAGG GAAAAGGAGA TTGATTGAA AGAAACTGGA	60
AAAAGAGACA TTCCCATGAT GGAGAAAGTA TCAGGAAAGA TGGCTGTTGT TGAAGAAATG	120
GAGGCAGATT TGAAAGAAAC TGGAAAAGAA AATTTTAGAG AGAGAGGATC TGAAGAGATC	180
TGTGTTACTG AGGAAAAGGT GGCAGAATTG AAACAACTG GAAAAACAGA CATTCTCTCA	240
AGGGCCCTCG AG	252

## (2) INFORMATION FOR SEQ ID NO:1125:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 317 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1125:

GAATTCGGCC TTCATGGCCT AAACAGAATA TTCTGAGGCT AAAAGAAAAT ACACCCCCGC	60
AAAAATCAAT ATAACATGA TTAAGTACAC AAAACATGCA GCCCATAAAA CATATTTTAC	120
CTATGAACT GAGACTGAGG AATTTAACAG TAAACAGTCA TTTGTTAAAG AAATATTTT	180
ACAATTTATT GCCTATGTAT AAGGCAGCAG GCCTGTACTC TCTTGTTATT TCAATCTCTT	240
CCCCTACTCT GGCTCTTCT CAGCATATAA ATATGTTTCT ATCCCTACCT TATGGAAACC	300
ATCCCCATC CCTCGAG	317

## (2) INFORMATION FOR SEQ ID NO:1126:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 382 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1126:

```

GAATTCGGCC TTCATGGCCT ACTTTGTAAC TGTGAAATAC TCTCCAGGAT TTAAAAGGCT      60
GTGGAGCTCC AGATAAAGAA TCGTTTATCT TTCTTCTGAA GAAATTCCTT TGGTTACAAG      120
TTTACCCCAT AAACGGCAAC ACACTCACCT CCATCCAAGA CAGACTCAAG GTGGAGGAAG      180
CGTGGAATG TGCTTCCGGA CAAAGCTCTC AGTATCCTGG GTGCCATTGT TTCTTCTACT      240
CAGCCGTGTT TTTTCTACTG AGACAGACAA ACCCTCAGCC CAGGACAGCA GAAGCCGTGG      300
GAGTTCAGGC CAACCGGCAG ACCTGCTACA GGTTCCTCTCT GCTGGTGACC ACCCACCCCA      360
CAACCACTCA AGAAGCCACT CG

```

## (2) INFORMATION FOR SEQ ID NO:1127:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 334 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1127:

```

GAATTCGGCC TTCATGGCCT ACAGACTTCT GTGTGTGGGA CTGAAGCACC TGTTGTGCAA      60
TCTGAAGAAG CTCTGGTTGG TCAGCTGCTG CCTCACATCA GCATGTTGTC AGGATCTTGC      120
ATCAGTATTG AGCACCAGCC ATTCCCTGAC CAGACTCTAT GTGGGGGAGA ATGCCTTGGG      180
AGACTCAGGA GTCGCAATTT TATGTGAAAA AGCCAAGAAT CCACAGTGTA ACCTGCAGAA      240
ACTGGGGTTG GTGAATTCTG GCCTTACGTC AGTCTGTTGT TCAGCTTTGT CCTCGGTACT      300
CAGCACTAAT CAGAATCTCA CGCACCATCT CGAG

```

## (2) INFORMATION FOR SEQ ID NO:1128:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 251 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1128:

```

GAATTCGGCC TTCATGGCCT AGTCTGTCCA TCTGCTTTCT CTGGACCTCC TTCTCATACT      60
TTGAATTTT TAAGTAGTTT GTCCCTCATA TGATTTTTTT TCTATTCCTT TTCCCTTCC      120
TGTCCTTCC TCACTCCTTT CCTCCCACC TCCCTCCCTC CCTTCCTCTC TCCCTTCCCT      180
CCTTCCTTC ATCCAACCAT CCATCCATCC ATCCATCCAT CCATCCATCC ATCCATCTAT      240
CCTCTCTCGA G

```

## (2) INFORMATION FOR SEQ ID NO:1129:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 372 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1129:

```
GAATTCGGCC TTCATGGCCT AATTTCATGT NCCTTTGAGC TATCTTTCCA TTTTGTAGGA      60
ACACCGTCAC AGGAGACAAT TTCATGGACC TTTGAGCTGT CTTTCCATTT TGTGGGAACG      120
CCGTCACAGG AGACAATTTC ATGTGCCTTT GAGCTGTCTT TCTATTTTGT AGGAACGCTC      180
TCAGAGGGGA CAATTTTCATG TGCCTTTGAG CTGTCTTTCC ATTTTGTAGG AACACTCACA      240
GCAGTGCTTG GGGTTCACTG TTACCTAAAT CCCATGATGG GTGAGAAGAC TGAATGGGAC      300
GTTTATTTTT TGTGTTAAAA AGCCCACGCA AATAGAGTTT AAAATAGTCT CAGTGAGCTG      360
GGCATTCTCG AG                                         372
```

(2) INFORMATION FOR SEQ ID NO:1130:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 275 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1130:

```
GAATTCGGCC TTCATGGCCT AGTGCCTAGT TACAAGGTTT TATTACAGCA GTATTTCTAA      60
ACATTTGGTT AGTCTGTCTC TGCTTTTCCC ACCATAATTT TCTAGCACTT GTAGCTCACC      120
TTATCTCCCA CTTCCTTTT TAAATAGAAA ACAGGCTTGT TCTGTTTGA CCAGGTATAA      180
CTCTTTGCTC AGACTGTCTC TAAAGCCCAG AAAACTATTC CTCTAGTGGT CCAATGAAGT      240
GTTCCCCATT GAAAGTTTGC CTCATGTCAC TCGAG                                         275
```

(2) INFORMATION FOR SEQ ID NO:1131:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 388 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1131:

```
GAAAATTGAG CCTATGTTGG AGACACTGGA GAATCTTTCC TCTCGCCTGC GTATGCCACC      60
ACTGATCCCT GCTGAAGTAG ACAAGATCAG AGAGTGCATC AGTGACAATA AGAGTGCCAC      120
CGTGGAGCTA GAAAAACTGC AGCCATCCTT TGAGGCCTTG AAGCGCCGTG GAGAGGAGCT      180
TATTGGACGA TCTCAGGGAG CAGACAAGGA TCTGGCTGCA AAAGAAATCC AGGATAAATT      240
GGATCAAATG GTATTCTTCT GGGAGGACAT CAAAGCTCGG GCTGAAGAAC GAGAAATCAA      300
ATTTCTTGAT GTCCTTGAAT TAGCAGAGAA GTTCTGGTAT GACATGGCAG CTCTCCTGAC      360
CACCATCAAA GACACCCCAG GACTCGAG                                         388
```

(2) INFORMATION FOR SEQ ID NO:1132:

- (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 278 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1132:

GAATTCGGCC	TTCATGGCCT	AAAGTTATAC	CAGCTAAAGT	GCAGTAGTGT	CACTTTTTC	60
CTGTCAATAT	ATAGAGACTT	CTAAATCATA	ATCATCCTTT	TTTAAAAAA	AGAATTTTAA	120
AAAAGATGGA	TTTGACACAC	TCACCATTTA	ATCATTTCCA	GCAAAATATA	TGTTTGGCTG	180
AAATTATGTC	AAATGGATGT	AATATAGGGT	TTGTTTGCTG	CTTTTGATGG	CTACGTTTG	240
GAGAGAGCAA	TCTTGCTGTG	AAACAGTGTG	GACTCGAG			278

(2) INFORMATION FOR SEQ ID NO:1133:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 368 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1133:

GAATTCGGCC	TTCATGGCCT	AATCATTATA	ATTTAGTTTG	AATTCTTAAA	ACCCCGTTAC	60
TAGAACTTAT	GTTTAAATTT	ATAAATTATA	AATAGTTTATA	AATTATAAAT	AAATTGAGAC	120
TGAGGCAGGA	AAATCACTTG	AACCCAGGAG	GCAGAGGTTG	CACTGAGCCA	AGATCACGCC	180
ACTGCACTCC	AGCCTGGGTG	ACAGTGAGAC	TCCATCTCAA	AAAAAAAAAA	AAATTATATA	240
TAAATTCTGG	TAAGTAAGTT	TGAAGAAAAA	CCGATTCAAA	TAGTATATAT	TCAGCTTTAT	300
AAATTCTGTT	AAGCATATTT	GAATGAGAAT	TTATTAATAA	GGTTTATATT	AAGTCTACGG	360
TTCTCGAG						368

(2) INFORMATION FOR SEQ ID NO:1134:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 441 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1134:

GAATTCGGCC	TTCATGGCCT	ACGTCTGATT	CTCTAAGTTC	ATTTCTTGGT	GGTGGAGGCT	60
CATTTCTTCT	GGAGTCACTG	AAATTTTGGG	GATATCTTTC	GAAGCTTGA	TCTTCCCTTC	120
GTGCAGTAGG	TCGTGCTTTT	TTCCCTCAC	TTTGACCAAC	AAAGCGATCC	CGCCTTTCAA	180
AAGATGAAGA	CTGTACTGCT	GAAGTCTCAG	GAAACCTGCC	CCTCTCTCGG	TGATCAAAGT	240
CATTAAATCT	GTTCTGTTGG	CGAGAGTAGT	CGGATCCATG	GCCAAATCGT	GCATCTGTAT	300
CTAGAGACAA	CTTTTATTTC	TCGCTCCAGT	AAGGATCATC	TCGCCTATGA	TCTACATCAC	360
GTGGGCGTTT	CAAGGAATTC	CTTTTCTT	GTTCATAACG	AAGCTGCTGT	TGTTGCCTTC	420
TGAGTTCCTC	TCTTCTCGA	G				441

(2) INFORMATION FOR SEQ ID NO:1135:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 115 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1135:

```
GCGATTGAAT TCTAGACCTG CCTCGAGCAA GAAACGTTTT CTAAGTCAA GGAATAAATC    60
CAAAGCCTCT AAGACTGGGT GAGAGAGAGG AAAAGAAATG ACGGAAGCAC TCGAG      115
```

(2) INFORMATION FOR SEQ ID NO:1136:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 253 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1136:

```
GAATTCGGT TTTACTGAAG CTATGTTAGA AACGTCATGT AGAAACTCTT TAGATACTGA    60
GCTTCAGTTT GCTGAAAATA AGCCAGGCAT GTCTTTGTTG CAGGAAAACG TAAGCACAAA    120
GGGTGACGAT ACAGATGTCA TGCTCACAGG TGACACTTTG AGCACCTCAT TGCAGTCTTC    180
CCCAGAAGTG CAGGTACCTC CTACCTCCTT CGAAACAGAA GAAACGCCCC GTCGGGTACC    240
CCCAGATCTC GAG                                     253
```

(2) INFORMATION FOR SEQ ID NO:1137:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 339 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1137:

```
GAATTCGGCT TCATGGACGA GGAGATCGTG TCCGAGAAGC AAGCCGAGGA GAGCCACCGG    60
CAGGACAGCG CCAACCTGCT CATCTTCATC CTGCTGCTCA CCCTCACCAT TCTCACAATC    120
TGGCTCTTCA AGCACCGCCG GGCCCGCTTC CTGCACGAAA CCGGCCTGGC TATGATTTAT    180
GGTCTTTTGG TGGGCCTTGT GCTTCGGTAT GGCATTCATG TTCCGAGTGA TGTAATAAT    240
GTGACCCTGA GCTGTGAAGT GCAGTCAAGT CCAACTACCT TACTGGTAAA TGTTAGTGGA    300
AAATTTTATG AGTATATGCT GAAAGGAGAG ATACTCGAG                                     339
```

(2) INFORMATION FOR SEQ ID NO:1138:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 363 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1138:

GAATTCGGCC	TTCATGGCCT	AATTCAGAGG	TGGTGGGACC	TTGGCTATGA	TTCTGTTCAA	60
GCCCCCTAAT	TTTACAGATT	TTATGGAATT	GAGCAACAGA	CAAGATGATT	TTGCCTAGGT	120
TCATAAACAG	GAAAAAAGGA	GAGCCAGGAA	AGAACTCAAT	TGTTGTAAAC	TGCTGTCTTG	180
TCTTGATGTT	CTGTCTTCAT	TCATCATCCA	GCCTTTCCCTA	GGAGTGTCTAG	AGATAGACCC	240
AGGTAGAAGT	GGGCTGCCCA	TGGGGGGCTT	AGCACACAG	AAATTTATTC	TTTTACTGTT	300
CTGGAGGCCA	GACATCTAAA	ATAAAGGTGT	TGATGGGGTC	ATTCTTCCTC	TTGAGGGCTC	360
GAG						363

## (2) INFORMATION FOR SEQ ID NO:1139:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 367 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1139:

GAATTCGGCC	TTCATGGCCT	ACTTGTAGAA	TATTGAGCAA	TTTGTGTGAA	GTGGGGAAGA	60
TGAAAGAAGT	CAGAATTGTA	AACGGAAGAA	TGAAGAAAAG	AAATAAAAAT	GAAGTTAAGA	120
TAAGAAGTAA	TCTGGAATCA	GAAAGCACTA	CGCTAAGAAT	CCCGTTCTGC	TTCCAGAAGT	180
GGAAGTGCTC	ACGGATCGGG	GAAATCTGCA	AGGCATACCC	CTGCAAGGTC	TCGCTCCAAG	240
GAAGATTCCA	GGCGTTCCAG	ATCAAAGTCC	AGGTCCCAGT	CTGAATCTAG	GTCTAGATCC	300
AGAAGAAGCT	CCCGAAGGCA	TTATACCCGG	TCACGGTCTC	GCTCCCGCTC	CCAAGGACGA	360
TCTCGAG						367

## (2) INFORMATION FOR SEQ ID NO:1140:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 389 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1140:

GAATTCGGCC	TTCATGGCCT	ACACCCTCAC	CACCCAAGGG	GTCATCATCT	CTGGCCACCA	60
CTCCACCAGA	TGGGCAGAGC	AGCTATGACC	GCCACCCAGC	CCTCCCGCTC	AGGCCACAGC	120
CGGAGCCTCC	GCATTGCCCC	CACCCCATT	TCCAGGGGG	GTTGTAATTT	ATAAGCTGAC	180
GAAGGTAGCC	AGACTTCCGG	AGGACTGACC	ATCTCTCACT	GTCTCCCCA	CCTTCTTCCT	240
CACTCACACA	TTTTTTGTAC	ATCTGGGCCC	TTAGTTTTTA	TTCTGTTTAT	TATATGTCTC	300
TGTCTCTCTC	TATTGTGTGT	GTGTGTGTGT	GTGTGTGTGT	GTGTGTGTGT	GTGTGTGTGG	360
TGCAGGAGTG	CCACCCCAG	GGCCTCGAG				389

## (2) INFORMATION FOR SEQ ID NO:1141:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 311 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA



## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1141:

GAATTCGGCC	TTCATGGCCT	AGCAGCACTA	ATCTTGATGG	GACAGAAAAT	TTCAAATGAA	60
GAGCTTTCCC	TCTTTTTTTC	TTCCTTGGGG	GCATGCCAGC	TTGTGCTTCT	ATGTCAGTAG	120
CCTTGATGTT	GCCATTCCCTG	GCCCAGACAC	TGCGATGCAG	TTTGGTTTGT	CCTCCACCAC	180
TTTGATCATG	TGCCCCATGG	TCTAGACACC	TCCGTGTCCT	TGTTATCATG	GCATATAGTC	240
TGTATGCCTC	TGCTGGATTT	ATAAGCGGCC	CCATAATAGC	CTTCCTTTCT	GGTTACCCCC	300
TTGATCTCGA	G					311

## (2) INFORMATION FOR SEQ ID NO:1142:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 530 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1142:

GAATTCGGCC	TTCATGGCCT	AAAAGATCAG	ATTTTGTTCAT	TTAAGACACA	TATTTTACAT	60
TCAAAAATGT	AAAGTCAGGG	TGTGTCTTAA	AATCCATTGG	TGTTTAAATC	ATGCTTAAAC	120
ATGTGACTGC	TGTTGGCCAG	GATACAGTTG	TGGTGGTGTC	GTCAGTATCT	GAGCACATGT	180
GAACCTNGCC	ATGACTATTC	ATATTGTCTT	CTCTTAAACT	GAATTATGTC	CATGGTTGCC	240
AACATGTACT	GTCCATAGTT	GCCACCATGT	ATTTAGGTTG	TCATTTAAAA	TGTCCTCAAA	300
AAGATTTTAC	CATGATTCTC	CATCAAAATA	GAAAGCTATT	TTGTATGAAG	AAGAAGCTCAG	360
ACCAGAAAAG	TCTGATAAAA	ATAATCTCTT	AAATAAGTCT	ACATTAGGTC	TTTCAATTTG	420
TATAAAATGT	AAATTTTGAA	TTATAAGAAA	ACAATTTGTT	ATACTGTAAT	TGGTAGCATT	480
TTTTCTTAGT	AGTGTAACAA	ATAATGTGTA	CCTTACATTC	AAATCTCGAG		530

## (2) INFORMATION FOR SEQ ID NO:1143:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 615 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1143:

GAATTCGGCC	NNCATGGCCN	ACCTATGTNA	NGNATTTCNN	CTCCATTNNC	CCNAGGGTTC	60
TTTCCTGTTC	TTAGAAATGT	TTTGTGATTT	TGCTTCAGAC	ACAGTTTGTC	TACTTCTNGT	120
AAGCATTGTT	CTTAGATNGC	TGGCTTTATA	TCTATCACTC	CCTTGCTCAT	CTGCCCATCC	180
ATCTATCCAT	CCATCCATCC	ATCCATCCAT	CATCCCTCCA	TCCACTTGCT	CATCTGCCCA	240
TCCATCCATC	CATCTATCCA	TTCATCCAGT	CCATTCACCA	CCCACCATCT	ATTATCCATC	300
CATCCATCCA	TCCATCCATC	CATTTCATCCA	CTCACCCATT	CATCCATCAT	CCATCCACTC	360
ANCCATCCAT	TCATTTCAGTC	ACCCTTCATC	CATTCACTCA	CCCATCCTTC	CATCCACTCA	420
TCCAATCACC	CATCCATCCA	TACATCCACT	CATCCATTCA	CCATCCATAC	ATCCACTCAT	480
CCATTTCATCC	ATCCATCCAC	CCACCCAGAC	GTCCGTCCAT	CNATCCATCC	ATCCATNCAT	540
CCTTCTATNN	NNTCTGCCAA	CAATCCANAC	ACNTGTCCNT	CNATCCCTTC	CAACCACTCA	600
CCCAGCACAC	TCGAG					615

## (2) INFORMATION FOR SEQ ID NO:1144:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 57 base pairs

(B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1144:

GAATTCGGCC AAAGAGGCCT AACCGCGGCC GCTACTTCGG CCTCTTTGGC CCTCGAG 57

(2) INFORMATION FOR SEQ ID NO:1145:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 227 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1145:

GAATTCGGCC TTCATGGCCT AGGTTTTCTT TTATTTAAAA GATCATTCAC AAAATACCAT 60  
 ATCCATAGAT TTACTTTCTG TCATATAGCT GAATGTGTTA AGTGTTTGGA ATTCCATTCT 120  
 TACATTTAAA GGTCAACTGG ATTGCCCAGC AGTTTAGATG CATGTGTTTT GTTCTTTATC 180  
 TTATCCACAT TGAAGATGTA AGTATTGAAT TCTAGACCTG CCTCGAG 227

(2) INFORMATION FOR SEQ ID NO:1146:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 447 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1146:

CTCGAGTATC TCCTCCTTTC TGATATCCAG TTTAGGTGGT CCAATTTTTC CATCTCGGCA 60  
 TACAGCAAAT TCTTCTGACT TTGCATAGGC AGATTCTTTT TGTCCAACCC TGGCTTTAAC 120  
 TCTGACCCAA AGAGAATTTG ATGGATCACC AACATGATCA GAAATATTAC AATAATGATG 180  
 AGAAATATTG ATGCAGGCAT CAATCCATTC TGAATTCTTA ACACCATAGT TCTTTACCTC 240  
 TACGGTAAAA ACAGGGACCT GTGGCATGAT CTGGTACTCC CAATATACGA TAGGGTTTCAT 300  
 GTTATAGGAT TCAATTGTAA CATTAGTTGG TGTAGGCACT GAGGACGGCC CCAGATCCGC 360  
 GGTGCCCCATC TCAGCCCTGC TCACACCCTG CATGACAAGG GGTAGGAGAA AGAGGAGAGC 420  
 CATGCTGCTA CCGACGGTCG CTGGCTC 447

(2) INFORMATION FOR SEQ ID NO:1147:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 271 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1147:

```

GGGCGCCATG TTTGCCATCT CAGGTCCAGG TTTCTCCCGG ACTTCGAAGA GCTCATTATC      60
GGGTCTGATT TTCAGCTCCT TCTGCAGAGT CTTCCGGAGC TCCAGCATCC GCTGCTGCAT      120
CTGCTTTATG GTCTTATTTT TCTCCAGAAG TTGCTGCTCC AAGTCCTGTT TCTCCTTCTG      180
TAGCTGTGTG AGATCCATGG CCCCAACCTC ACCATTGGGT GTTCTTCCTG CAGTTGGAAG      240
CTGGAACACA GGGTCCTGCA TGGCCCTCGA G              271

```

## (2) INFORMATION FOR SEQ ID NO:1148:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 298 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1148:

```

GGATTGGGGA GGGAGTGTGC GAATAGGTGT GGGTGACAGA CATCAAGTAC TTAACAGGGT      60
AATAGAATAT CACAAGGCAA GTGGAGGCAG GGCAGATCA CAGGACCACA GGACCAAGGC      120
AAAATTAAAA TTGCTAATGA AGTTTGGGCG ACCATTGTCA TTGATAACAT CTTATCAGGA      180
GACAGGGTTT GAGAGCAACC GGTCTGACCA AAATTTATTA GCGCGGAATT TCCTCCTCTT      240
AATAAGCCTG GGAGCGCTAT GGGAGACTGG AGTTTATTTC ATCTCTGCCT GCCTCGAG      298

```

## (2) INFORMATION FOR SEQ ID NO:1149:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 332 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1149:

```

GAATTCGGCC TTCATGGCCT ACGGCATTTC AGCGTCAAGT GCACTTAGCG GGGTACCCGG      60
CTCCCCCAGC CCCCACACCC GTCCTGGGTC TCAGGGTGGT TCCAGCTTCT CTTGGGCAG      120
CCAGAAGTTG GAGTCCCATC CCCCANNGNA NATTTTTTTT TTTTTTTTTT TGTGATCAGG      180
GAGTGTGTCC AACGTAGCCC CCTGGCCTGT GCAAGCCCTG ACTCCCTCAT GGTGCCTCGG      240
AGAGTGGGGA GCATATTGGG CTGGGGTAAG CACTAGACCC AAGTAGACTG GACACAAAGG      300
GCTCGCCCAG GGCCCTGGCG CCACCCCTCG AG              332

```

## (2) INFORMATION FOR SEQ ID NO:1150:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 400 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1150:

```

GCGAGGCAGG GAAACTCACT TCACGTCTCT TTCCTGTAG AGCATCATGC TTATTTCTGG      60
CTCACTCACA TCTTTGTCTC GGGAGTTCTC TGCCGAGCCA TTGCCCCCTA CAGCAGAGAG      120
CACAGCTGGC TGCACTAGTG CTGAAGGAGC CAGCCCCAGA GCAGGGCATT TCCAGGGGCT      180

```

CTTGTCCTCCAG	AGCGGCAGGC	GTTGTGTGCA	GAGAACGCCC	CTCCCACGCA	GCACAGAGAA	240
CGCGGGGTGG	GTGTGTGGCT	CCGGGCCTGT	GGGGCTTAGG	CTGCCTGAAC	CACCGCCGAC	300
TGGCACCATG	ACTCGGCATT	CCTGGAAGTG	CCTTACCAAG	TTGTTGTTGT	TGTTTTGTTG	360
TTTTTTAAGA	GACGGGCTTG	CTCTATCATC	CAGGCTCGAG			400

## (2) INFORMATION FOR SEQ ID NO:1151:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 329 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1151:

GAATTCGGCC	TTCATGGCCT	ACCCAGACAA	ATACCAAGTT	TATTTACAA	ACACTAGGAA	60
GATGGGTGGA	GGGTGGAGGT	GGGGGACACA	GGTGCGCAGC	TGCACAGAGT	CAGCAGCAGC	120
AGCCTGCTCC	CCGCACTGAG	GACTCGGCCT	GGANTGCAGT	GCCTCCAAAT	CAACACGCAG	180
CAAGAGGGGA	GTGCAGGGAG	GGCCCTGAAC	ACCAAGCCTC	TGAAAGGCTA	AGGGACACAG	240
CTCCAGCTGT	CCCAGGAAA	CCAGCAATAA	ATAAAAGTGA	GGCACGGCCC	CACCCACACA	300
TATCATCTAG	TCACCCATCT	TCACTCTGG				329

## (2) INFORMATION FOR SEQ ID NO:1152:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 313 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1152:

GAATTCGGCC	TTCATGGCCT	ACCCATAGCC	ATGAGCATGA	CTGGCTGCCA	GCTCTTAGTC	60
ACCAAATGCC	ATTCTCCGCT	GAAAGAAGCA	AGGGCTTTTC	AGAGAATAGA	CTGAGCACAA	120
AAATGACAAT	GGTAATGGAG	TAGAACACCT	TGACTTTTAA	AAGTCCACGA	GTCCACAGTG	180
ATGCCTAAGG	GAAGTAGGGA	GGAAAGCTCT	TCTTTACAAC	ATCTTCCAGC	TAACAGATGG	240
AAAAGGAATG	ACAAAATGAA	AAATCACCAT	ATTGCAACTC	TCAATAAAGT	AAC TGATTCA	300
GGCATATCTC	GAG					313

## (2) INFORMATION FOR SEQ ID NO:1153:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 324 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1153:

GGGCTCCTCG	CCAAGGAACT	CGTGGCAGAA	GAGGGCAGCA	GTTGGCAGTA	GCTGCCGATG	60
TCTGTCCCCA	GCTCCACCAT	TCCTCCCTGT	GGCTGTGCCG	TGCTCGTGGT	TTCAGTGTCC	120
GTGTGTCCAT	GTGTCTGCCC	TTCAGGAGCT	CGCAGCTGGT	GTGCTTGGCG	GTCCCAGGCC	180
TGTGTAGTGT	CTCTCCCTG	CTGCGGGCGC	CCCCACCCCG	ATTCCTCTCC	CCAGAAGCGG	240

TGGGATGGGC CCCCATGAAC TGCAGCAGCA TGCTGAGGTG TCCATGTTGT CTGCCTTTGT 300  
ATAAAGAAAC AGCCTCTACT CGAG 324

(2) INFORMATION FOR SEQ ID NO:1154:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 327 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1154:

GCGAGTTCAG CGGAGAAAAG AAAAAGCAAC GTTTAATTCT AGAAGGCCTC CTGTCCCTGC 60  
 CTGCTCTGGG TGCTCATGGA ATCAGCTGCT GCCCTGCACT TCTCCCGGCC AGCCTCCCTC 120  
 CTCCTCCTCC TCCTCAGCCT GTGTGCACTG GTCTCAGCCC AGTTTATTGT CGTGGGGGCC 180  
 ACTGATCCCA TCTTGGCCAC GGTGGAGAA AACACTACGT TACGCTGCCA TCTGTCACCT 240  
 GAGAAAAATG CTGAGGACAT GGAGGTGCGG TGGTCCGGT CTCAGTTCTC CCCCAGTGT 300  
 TTTGTGTATA AAGGTGGCGC ACTCGAG 327

(2) INFORMATION FOR SEQ ID NO:1155:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 504 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1155:

GAATTCGGCC TTCATGGCCT ACGAGCCCTT TGCCTCCAGT AGTCCACCT TTCTGGACTG 60  
 AACTGATATT CACCTTACAC AAATGGATTG ATGCTCATG TCTCCCTAAA ATGTACAAAA 120  
 CCAAGCTGTG CCCACACACC TTGGGCACAT GTCATCAGAC CTTCTGAGGC TGTGTCACGG 180  
 GTGCACGTCC TCAACCTTGG CAAAATAAAC TTTCTAAGTT ATCTGAGACC TGTCTCAGAT 240  
 TTTTGGGGTT CACACACCAT ATGTCTGAAT ACTGTCTTTT CCTATCTCTG GCTCCATCCC 300  
 ACATTGTAAG GGGCCTTGCA CACACAAATG TGGACATTCC AGCCTGCACA CCTAAGCATC 360  
 GCCTCCACTC CCACCCTTCC AGCGGATGGG TGTGAAAAC TGGCAGTGTG TTCATCTTCA 420  
 AGATGATGTA TACAGGAAAG TGGTCCAGGC AGATCCTGTG AGCAGGCTTG GGCCCACTTG 480  
 GGAAGAGTAA CCCAGGATCT CGAG 504

(2) INFORMATION FOR SEQ ID NO:1156:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 686 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1156:

GNNNNNNNNN NNNNNNNNNN TTCCCCCTTN TNNCATGTTT TGTTCCTTN TCCTTGTTN 60  
 TTTTTCGGC AAAATATTTC AAGNTATACC CAGGCAACAT NAANTCCAGT TCGGATTTTA 120  
 ATTAGTCGAG TATGCAGCGT CTTTTCATTT TTATTACTCA AAAAAGTTTC ATTTTATTAT 180

TTAGCTTTCT	GACTCTGTGC	TTGTGCCTTC	AACACTTTCA	CAACGATTTT	CTGCTCCTCG	240
ATAAGGAAAG	CACGCTTGAT	CCTGTACGA	ACACATTTAG	CACACATGGA	ACCACCATAG	300
GCCCTGCTGA	CATGTTTCTT	TGTTTGGAC	AATCTCATAA	GAACCTTAGG	TCTTACAGCA	360
CGAACCCTC	GAAGTCTGCC	TGGGCACACA	CCACATGCAG	ATTTGGTGC	TTTCCCAACC	420
TTCTTGGTAT	AAAGGTAAAC	AATTCTATTA	CCAGGGGTTT	GGGACAGCCT	AGTTTTGTTA	480
GAGGCTGTAT	TGTAGGAAAG	CCTACGTCGG	TATGTCAAAC	GCTGGACCAT	TCTGAGTGCC	540
TGCAGACAAC	CAAGGGTGAC	TATAATGACA	GCGTGCAGT	TGTGGACTGT	GGACTAAGTC	600
TGAATGATAC	TGCTTTTGAG	AAAATGATCA	TTTCAGAATT	AGTGCACAAC	AACTTACGGG	660
GCAGCAGCAA	GACTCACAAC	CTCGAG				686

## (2) INFORMATION FOR SEQ ID NO:1157:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 274 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1157:

GCAATTTGCT	TTTTTAAAAA	TACATTTTCA	TACACTAAGT	TTTCTGTTAG	CCTAAGTAAT	60
TATATTTCTA	ATTAACTTCA	AAGTAATTGA	TAGGTGGCAA	AGGATATCAA	TCAAAACCAG	120
TCCAAGTAAA	AAATGTACAC	TAATTTAATA	ACAATATTAT	TCTATATTAC	TTTTTTTTTT	180
TTTTTTTGAC	ACAGGAGTTT	CACTCTTCTT	GCCCAGGCTG	GAGTGCAGTG	GCACGTCTCG	240
GCTCACTGCA	ACCTCCACGC	CCCCCAGACT	CGAG			274

## (2) INFORMATION FOR SEQ ID NO:1158:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 196 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1158:

GAAGATGGAC	AACCGGGATG	TTGCAGGAAA	GGCTAACCGG	TGGTTTGGGG	TTGCTCCCCC	60
TAAATCTGGA	AAAATGAACA	TGAACATCCT	TCACCAGGAA	GAGCTCATCG	CTCAGAAGAA	120
ACGGGAAATT	GAAGCCAAAA	TGGAACAGAA	AGCCAAGCAG	AATCAGGTGG	CCAGCCCTCA	180
GTCCCCACAT	CTCGAG					196

## (2) INFORMATION FOR SEQ ID NO:1159:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 141 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1159:

GAATTCGGCC	TTCATGGCCT	AGAGGTGAAA	TACAGAAAGC	CTTTTTTTCT	TGATCTTTTC	60
CCGAGATTCA	AATCTCCAAT	TCCCATTTGG	GGGCAAGTTT	TTTCTTCAC	CTTCAATATG	120

AGAATTCAGC GAACCCTCGA G

141

## (2) INFORMATION FOR SEQ ID NO:1160:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 355 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1160:

GAATTCGGCC TTCATGGCCT AGTAATATAT ATAATTTATA AGTAAATATA AATTAGGGAG	60
GTGTACTCAA CATTTCATA GAATACATAG TCAAAAATGG TTTGCAACCT CTGCCTAACA	120
AAAATAAAAC ACCCTACATC TTTGGTTCAA GATTGTCACC CCCAACAGTT GTGTGAAATG	180
TGGGGCAGGA ATTATCACTA TTTTCCTTTG GAAATTAAGG TTCCAAAGAT AATGAGACCA	240
GAGCCAAAGG TCAGAGTCCA CTGTCTTCTC TCTGAGGCCT CAATGTGAAG ACCTGAACTG	300
TGGCAGCAGA TAATTCTGGA GACCTGTAA TCAGCTGTAT GCACCACAAC TCGAG	355

## (2) INFORMATION FOR SEQ ID NO:1161:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 257 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1161:

GTATTCATC ATATAATTTT CTTCGAATTG GGAATTTAGG CAGTATGTTA TGGGATTTTT	60
TTTTTAATTT ATTTTTTTTT TTTTtaggAA GCTTGTTTCT CTTTGCATT TATAGAGAGC	120
ATGTTTATAT TAAAGAGTAC CTTCCATACT ATAGAACACA TTTGTGGGTG GATTTCGGTCC	180
TTTTCTTTCT ACCCTCCCTG ATTGCTGCTA ACAATCCAGA AAGACAGAAA TTTGTTTTTT	240
ATTCAGGCAC ACTCGAG	257

## (2) INFORMATION FOR SEQ ID NO:1162:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 220 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1162:

GAATTCGGCC TTCATGGCCT ACTGTTTCCT TGCCCTTTTC ACCGTCTGGT GGTTCCTGC	60
AGCCCTTGGC TTGTGGCCCT CTCATCCATC TTCCGAGCCT AGCACTCCAG TCTCTGCTTC	120
TGTCATCACA TCGCCTTCTC TTGAGAAAGA TCCCAGGCTG GTATTTAAAT TGCTGTGTTG	180
CAGGAACCTT GCCTGTCTTC CCCTACCCCC ACAGCTCGAG	220

## (2) INFORMATION FOR SEQ ID NO:1163:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 405 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1163:

```
GAATTCGGCC TTCATGGCCT AATCACTTGA GGTCAGGAGT TCATGACCAG CCTGGCCAAC      60
ATGTTGAAAC CCCATCTCTA CTAAAAATAC AAAAATTAGC TGGGCATGGT GGGGGGCACC      120
TGTAAGTCCCA GCTGCTAGGG AGGCTGAGAC AGGAGAATCA CTGAACCTG AAAGGTGGAG      180
GTTGCAGTGA GCGGAGATCG TGCCACTGCA GTCCAGCCTG GGTGACAGGG CAAGACTCCG      240
TCTCCAAAAA AAAATTAAAA ATAGAAATAC ATTTTAAAAC CCAGATACTT GTAGCATATA      300
TAAGGACAA TTGCAGTTG GAAGGTACTT CCACATGTAT TATATAATT TATTTTTTAA      360
AATGAATCTC ATTTGGTTGT CATGAAATTT GGCAAGCTTC TCGAG                      405
```

(2) INFORMATION FOR SEQ ID NO:1164:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 259 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1164:

```
GAATTCGGCC TTCATGGCCT AGCAGAAGCG AGAGGAGGAG GAGAAGAAAG CGGAGTTCGA      60
GCGGCAGCGA AAAATTCGAC AGCAAGAAAT AGAAGAAAAA CTCATCGAGG AAGAAACAGC      120
ACGAAGAGTA GAAGAATTGG TAGCAAAAAG GGTGGAGGAA GAACTGGAGA AAAGGAAGGA      180
TGAAATTGAA CGAGAAGTTC TCCGAAGGGT GGAGGAAGCC AAACGCATCA TGGAAAAGCA      240
GTTGCTCGAA GAACTCGAG                      259
```

(2) INFORMATION FOR SEQ ID NO:1165:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 114 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1165:

```
GAATTCGGCC TTCATGGCCT AAATTTTCAGC AATACAGCTC TCACATACAT AAATTATAAA      60
ATAATTTTAT TTAAGGTGAT GAAATTTATA AGCAGGTTCA AAAATATAAT AAAA          114
```

(2) INFORMATION FOR SEQ ID NO:1166:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 316 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA



## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1166:

GAATTCGGCC	TTCATGGCCT	AGTCAGCAAC	ACCCAACACT	GTCTGTTTTC	CATTTGTTGG	60
TTTTAATCAT	AAAATTGTCA	AGTGATTCGT	GTTTGTACTT	TATTTTTTTG	TGCCTTCTGA	120
AAGGATCTAA	AACAAAAATA	TTTTGCCTTT	TTTTCCCCAC	GTGTATCTGA	ACATTAAAGCA	180
GATTGGCTCA	GACACAATGA	AAAGGATAAT	CCAATGTACG	TGCTGGTGCA	CTCTGCTAGT	240
TGTTATCTCT	GTAGGGCTCA	GGAAGCTGGA	AGGAGGAAGG	GAGGGTAAGT	GGCCTGGTGA	300
GTGGAGGTGG	CTCGAG					316

## (2) INFORMATION FOR SEQ ID NO:1167:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 300 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1167:

GAATTCGGCC	TTCATGGCCT	AGGTACCAAT	AATTTCTTCA	CTTCTTCAAC	TGCTCTCTTC	60
AATTTGATTT	CTGCTCTGTT	CTGAGCATCT	TCCACAGTGA	TTAGTACATG	TAAATCTTCA	120
TTTAGATGCT	CCCAATTGGG	CTTGCCCTCTA	TTTGCTCCT	CCTTTTTTTT	ATCCCTCATT	180
GAGCCTTTGC	CTCGGACCAT	GATTTTACAT	CCGGTTTCTG	CTTCAAGTTG	TTGGCTGTA	240
AGTCCTCTAG	GTCCAAGGAT	TCTCCAACA	AAATTAAACT	TCGTCCAGCA	GCCGCTCGAG	300

## (2) INFORMATION FOR SEQ ID NO:1168:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 229 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1168:

GAATTCGGCC	TTCATGGCCT	ACCTTCACAG	AAAAATGCAT	AGCTGGATGC	TGCAGACTCT	60
AGCGTTTGCT	GTAACATCTC	TCGTCCTTTC	GTGTGCAGAA	ACCATCGATT	ATTATGGGGA	120
AATCTGTGAC	AATGCATGTC	CTTGTGAGGA	AAAGGACGGC	ATTTTAACTG	TGAGCTGTGA	180
AAACCGGGGG	ATCATCAGTC	TCTCTGAAAT	TAGCCCCCCC	GATCTCGAG		229

## (2) INFORMATION FOR SEQ ID NO:1169:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 348 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1169:

GAATTCGGCC	TTCATGGCCT	AGTGCTGGGA	GCGCAGCCGG	CGGGCGAGGC	TGCCTGGAAC	60
GTGGAGCTGC	TGGAGCTGTC	CGGCTGACCT	GGAAAGTTCT	TTGGCCTCTA	GGCTTTACCT	120

GGAGGCCTCT TCCTTCAGCT CCTTGTTTTT CCGCACCTCC TCGGCGTGCT TGTCCTTCTC	180
TTGCAGCCGT TCCAACATGG CGGCGAGGTG GGCCTCCCTG TTCTCCTTGT TGGATTCCAT	240
CTTCTGGGCC AGTTTTTCCT TAGCCATCTT GATGAAGTTG TTGTTTTCTT CAATGGCCCT	300
TTGGATCACC TCTCTCTCAT GTTCCCGGAA TTCTAGACCT GCCTCGAG	348

## (2) INFORMATION FOR SEQ ID NO:1170:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 81 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1170:

GGCTTTTTC AAATTGCTCT GGCTACCATA TAGAAAATTG ACTGAAGGAG GGCCAAGATG	60
GAAACAGAGA GGACGCTCGA G	81

## (2) INFORMATION FOR SEQ ID NO:1171:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 418 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1171:

GAATTCTGAG GGACTAACTA CGACCATGAG ATTGGCAGTG ATTTGCTTTT GCCTATTTGG	60
CATTGCCTCC TCCCTCCCGG TGAAAGTGAC TGATTCTGGC AGCTCAGAGG AGAAGAAGCT	120
TTACAGCCTG CACCCAGATC CTATAGCCAC ATGGCTGGTG CCTGACCCAT CTCAGAAGCA	180
GAATCTCCTT GCGCCACAGA ATGCTGTGTC CTCTGAAGAA AAGGATGACT TTAAGCAAGA	240
AACTCTTCCA AGCAATTCCA ATGAAAGCCA TGACCACATG GACGACGATG ATGACGATGA	300
TGATGACGAT GGAGACCATG CAGAGAACGA GGATTCTGTG GACTCGGATG AATCTGACGA	360
ATCTCACCAT TCCGATGAGT CTGATGAGAC CTTCACTGCT AGTACACAAG CAGTCGAG	418

## (2) INFORMATION FOR SEQ ID NO:1172:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 431 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1172:

GAAAACAGCA CTGCATGTCT TTGGCAAGCC ACAAGTTTCA TAGATACAGC TGTGCTCACT	60
GCAGAAAGCC TTTTCATAAG ATAGAAACAT TGTACCGACA TTGCCAAGAT GAGCATGACA	120
ATGAGATAAA GATTAAATAC TTCTGTGGGC TTTGTGATCT TATCTTTAAT GTGGAAGAAG	180
CATTTTTGAG TCATTATGAG GAGCACCACA GCATAGATTA TGTATTTGTG TCAGAAAAAA	240
CTGAAACTTC AATTAAAACC GAAGATGATT TTCCAGTAAT AGAGACCAGT AACCAGTTAA	300
CTTGTGGTTG CCGTGAGAGT TACATCTGTA AAGTCAACAG AAAAGAAGAT TATAGCAGAT	360
GTCTCCAAAT CATGCTGGAT AAAGGAAAAC TGTGGTTTCG CTGCAGTTTA TGTTCCGCAA	420

CAGCACTCGA G

431

## (2) INFORMATION FOR SEQ ID NO:1173:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 319 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1173:

```

GAATTCGGCC TTCATGGCCT ACCCCTTAAA GGAAAGAATG GCTGCTCTAG AAGAAAAGAA      60
TGTTTAAATT CAAGAATCAG AAACCTTCAG AAAGAATCTT GAAGAATCTT TACATGATAA      120
GGAAAGATTA GCAGAAGAAA TTGAAAAGCT GAGATCTGAA CTTGACCAAT TGAAAATGAG      180
AACTGGCTCT TTAATGAAC CCACAATACC AAGAACTCAT CTAGACACCT CAGCTGAGTT      240
GCGTACTCA GTGGGATCCC TAGTGACAG CCAGTCTGAT TACAGAACAA CTAAAGTAAT      300
AAGAAAACCA AAACTCGAG                                     319

```

## (2) INFORMATION FOR SEQ ID NO:1174:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 171 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1174:

```

GAATTCGGCC TTCATGGCCT ACTTAATATA TTTGTGAGAT AATTATTGAG ACATTTTATT      60
AATATTTTAT TTAGTCTTAG AATTCAGAG AAAAGTGAAC CTAGAGAGGT ACTTCTCCTG      120
GTTCAAACCTG TGAACATGAA AATTCTGAAT TTAAGTAACT GGATCCTCGA G              171

```

## (2) INFORMATION FOR SEQ ID NO:1175:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 366 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1175:

```

GAATTCGGCC TTCATGGCCT AAGGAAACAA AAAGCTAAGG GCAAAATGTA CAACTTAGA      60
AGAATTGGAA GATAGAAACA AGATAGAAAA TGAAAATATT GTCAAGAGTT TCAGATAGAA      120
AATGAAAAAC AAGCTAAGAC AAGTATTGGA GAAGTATAGA AGATAGAAAA ATATAAAGCC      180
AAAAATTGGA TAAATAGCA CTGAAAAAAT GAGGAAATTA TTGGTAACCA ATTTATTTTA      240
AAAGCCCATC AATTTAATTT CTGGTGGTGC AGAAGTTAGA AGGTAAAGCT TGAGAAGATG      300
AGGGTGTTTA CGTAGACCAG AACCAATTTA GAAGAATACT TGAAGCTAGA AGGGGAAGGA      360
CTCGAG

```

## (2) INFORMATION FOR SEQ ID NO:1176:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 222 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1176:

```
GAATTCGGCC TTCAGGCCTA CAAGAATTTT ATGCCATCCA AGAGTATTAG CACAAATAAA      60
TAAAGGCAAT TTGTAAATTT TTTCCCTGAA AATCTAAAAA ACAAGAAAAC TATCTCTTCA      120
GGGTGATTAT AATTAGGTCT ATGAGACTCT CAAGGTCCCT TTAGTGATTG AGAATCTATA      180
GTTGGAAATA CTTATTTTAA AATGTTTCAGG CAGTTGCTCG AG                      222
```

(2) INFORMATION FOR SEQ ID NO:1177:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 367 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1177:

```
GAATTGTCCA CAGCCTGTCA TGCCGCACAA CTGTCCACGC TCGGTTCTCT CGGATATCAC      60
AGTACACTAC AAATGGCTTC AGGGGGCCAC TGCCATCAGG ATCAATGGTG AAGTTTCCAG      120
AAGTTTTCCC ACTGAGCCGA TAAGCCTCAC AGGATTCCTT ATACAAAGGT GTGTGGCAGG      180
TCTCTCCCTT GTAGCCCGTC AGTTCGCAGT AGCAAATGAA GTCATCCCAA GACTGGTAGC      240
AGCGTCCATC ATGCTCACAC ATGTTAGGGC TGCACCTATC AGTGATGCCA CATGTATCAA      300
AGAGGACCTC AGCATAGAAT CCAAGCCGCC GGCCCTCCAC CAGAGTCAGG TTGACCAGTT      360
GACCGAG                                         367
```

(2) INFORMATION FOR SEQ ID NO:1178:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 367 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1178:

```
GAATTTAGAA CGGTACAAA AGGACCTAAG CCAAACACAG TGTCAAATGA AGGAAATGGA      60
ACAAAAGTAT CAAAATGAAC AAGTTAAAGT GAATAAATAC ATTGGAAAGC AGGAGTCTGT      120
AGAGGAGAGA TTGTCTCAAC TACAAAGTGA GAATATGTTG CTTGACAAC AACTGGATGA      180
TGCCCAACAAC AAGGCTGACA ATAAAGAGAA GACAGTGATT AATATCCAAG ACCAGTTTCA      240
TGCTATTGTG CAAAACTTC AAGCTGAGAG TGAAAAGCAA AGTCTTCTGC TAGAAGAAAG      300
AAATAAGGAG TTAATCAGTG AATGTAATCA CTTAAAAGAA AGACAGTATC AATATGAAAA      360
TCTCGAG                                         367
```

(2) INFORMATION FOR SEQ ID NO:1179:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 247 base pairs

(B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1179:

GAAACCGAAA GTGGAAATGT ACTCTGGGAG TGATGATGAT GATGATTTTA ACAAACTTCC	60
TAAAAAGCT AAAGGGAAAG CTCAAAAATC AAATAAGAAG TGGGATGGGT CAGAGGAGGA	120
TGAGGATAAC AGTAAAAAAA TTAAAGAGCG TTCAAGAATA AATTCTTCTG GTGAAAGTGG	180
TGATGAATCA GATGAATTTT TGCAATCTAG AAAAGGACAG AAAAAAATC AGAAAAACAA	240
GCTCGAG	247

(2) INFORMATION FOR SEQ ID NO:1180:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 149 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1180:

GAATTCGGCC TTCATGGCCT ACGAGTTCTT CATGCTTGTT GTTGAGATTG GAGATGTTTA	60
TTGGTAACAT TGTCTTTTTT CCATCCTTTT TTTTCTTTCC TAACCTGGTT TCTTCCAGTG	120
CAACTGCAGA TAGAAGACCT GACCTCGAG	149

(2) INFORMATION FOR SEQ ID NO:1181:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 251 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1181:

GAATTCGGCC TTCATGGCCT AGAAAATTAA ACTGTTTTTT AAACCAGGTG TTCACITTTTC	60
ATTGATTTTT GCATAGTACT TGGTGAACCC TATTGATTTT TAGATTCAGG TAATTTTTCA	120
GTGTGAAAGA GTTTTTCTGT TATATCTTCA CTGTGATATC CATTCCATTC CCTTCTCAGT	180
TAATACTCAG TTTAGCTCTA GTATCTGTCT CTCAAATTAT GTTTAATTGC TTTTATCACT	240
TTGTCTCGA G	251

(2) INFORMATION FOR SEQ ID NO:1182:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 176 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1182:

GAATTCTAGA	CCTGCCTAGA	GTGCTCTGTG	TATGCGGATG	ATTTAGAATT	GTCATTCTC	60
TTTACTGGAT	GTTTATTAT	AAAGATCTGG	CCTGTCCTG	CGTCTGCGGA	GCGGCCCTTG	120
TCTCCAGCT	ATCTATAACC	TTAGCTAGAG	TGTCGCCTTG	TGGGTTCCCT	CTCGAG	176

## (2) INFORMATION FOR SEQ ID NO:1183:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 410 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1183:

GAATTTAGAA	TTCTTGACGG	GTCTCGGGG	GTTCTGTTG	TATAAAGGCC	TTCATTACTT	60
TAGTTATACC	CAAGTGAAAG	GGGCATTAC	CTCGTGACAA	GTGGATTATA	GGAGAAAAAG	120
AGGAGATGGT	AGGTCAGAGT	GTGCTTAGAA	GTGATGCCCA	GTGTTCTCAT	CAATGCCAGA	180
CATTACGGGC	TGCCCTTCCA	TCAGCCATTC	TACCTTTCTT	CCTGCTAACA	ATATCCCAAT	240
TTTGTTTCAAG	TATCAGGCCA	CTTAATATGT	TTCAGGGAAA	ACTGGTTCCA	GCCCAGAGCA	300
GTGTGGACCT	TGATTACATC	AAACTAATCA	TGGTGAGTCC	ATTTTCCTTG	CCAGAAATTC	360
GTTTAGGAGT	GGACATGTAT	TTCATTGTG	AGTACACAAG	ACGACTCGAG		410

## (2) INFORMATION FOR SEQ ID NO:1184:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 286 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1184:

GGAAACAGAC	AGTACCAAGG	AAGAAGCAGC	TAAGATGGAA	AAGGAATATG	GAAGCTTGAA	60
GGATTCCACA	AAAGATGATA	ACTCCAACCC	AGGAGGAAAG	ACAGATGAAC	CCAAAGGAAA	120
AACAGAAGCC	TATTTGGAAG	CCATCAGAAA	AAATATTGAA	TGGTTGAAGA	AACATGACAA	180
AAAGGGAAAT	AAAGAAGATT	ATGACCTTTC	AAAGATGAGA	GACTTCATCA	ATAAACAAGC	240
TGATGCTTAT	GTGGAGAAAG	GCATCCTTGA	CAAGGAAGGG	CTCGAG		286

## (2) INFORMATION FOR SEQ ID NO:1185:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 417 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1185:

GCGATTGAAT	TCTAGACCTG	CCTCACCTTA	CCCCAGGACT	CCGCTATGAC	ACCGCCTCTG	60
CCCCTACAAG	ACACAGATCT	CTCGTCAGCC	CCAAAGCCTG	TGGCTGCAGC	CACGATTGTG	120
TCCCAGCAGG	CTGAAGAGGG	CCTCACCTTA	CCCCAGGACT	CCGCTATGAC	ACCGCCTCTG	180
CCCCTACAAG	ACACAGATCT	CTCGTCAGCC	CCAAAGCCTG	TGGCTGCAGC	CACGCTGTG	240

TCCCAGCAGG	CTGAAGAGGG	CCTCACCTTA	CCCCAGGACT	CCGCTATGAC	ACCGCCTCTG	300
CCCCTACAAG	ACACAGATCT	CTCGTCAGCC	CCAAAGCCTG	TGGCTGCAGC	CACGCTTGTG	360
TCCCAGCAGG	CTGAAGAGGG	CCTCACCTTA	CCCCAGGACT	CCGCTATGAC	ACTCGAG	417

## (2) INFORMATION FOR SEQ ID NO:1186:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 260 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1186:

GGAAGGGGCT	TTTACAACTT	CCTTTTGTTT	CCAGGCGTTA	GTATCTCTGC	TTGGTATAAG	60
ATACCAAGTAT	TCCTAGGAAA	GGCCTTGAAA	AGAGGGACAG	ATACAAGCCT	CTTCTGAAAA	120
ATCTATGCTT	TTCTTACCTC	TACCAAGTAA	TAGCAAACAT	GAAAATGGTA	AAGATCTTTA	180
CAACATTTGT	CTCTGTACAT	ATAAACGTT	TAAACACATG	CGCAAAGATG	GAGCAAAATA	240
TCATAGAAAA	TAATCTCGAG					260

## (2) INFORMATION FOR SEQ ID NO:1187:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 337 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1187:

GAATTCGGCC	TTCATGGCCT	ACAAGGAAAT	GCCCAAGGAA	AAACGTGAGC	TTCAGTTTCG	60
GCGAAAGGTC	TTAGCAGTCA	CAGACTCACC	TGCCAGGAAG	GGCAAGGACT	CTCCCTCTAA	120
GCAGAGCCCT	GGGGAGTCCA	CGAAGAAGCA	GGATGGCCTA	GTCCAGATTG	CACCAAACCT	180
GA CTGTGATC	CAGTTCATTA	AAGTCTTCCC	CAGGGTGCTG	CTGCAGACCC	TACGCCACCC	240
CATCTTCCTG	CTGGTGGTCC	TGTCCCAGGT	ATGCTTGTC	TCCATGGCTG	CGGGCATGGC	300
CACCTTCCTG	CCCAAGTTCC	TGGAGCGCCA	GCTCGAG			337

## (2) INFORMATION FOR SEQ ID NO:1188:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 537 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1188:

GAATTCGGCCT	TCATGGCCTA	CGAGGCGTCA	CTGATCTTAA	CGAGACTTCC	AAATCGTCTC	60
AGCAGGGGCT	CCAGACTTCC	CCAGCAGGCG	GCAGGTTTCC	TGTCATGCTT	TCGCCTTCCT	120
TCTCATATAC	ACCAGTGCTA	GAGTTCATCA	TGTGTCAAAA	TTGTATCTTG	CTTCTTGTTT	180
TCAAGATGAT	CTAATAGTTG	TCTTATCTCA	GCATCATACT	CCACCCATTC	TGGGACAATT	240
CTGGCAGCAG	CTTTTAGTTT	GGATTCTTTT	GTTTTGGGAT	TATTGCACAG	ATCAATTGTT	300
TTGGCCCTCC	TTGGACTAAC	CACATACAAA	TATGAATCTG	GCTGCAAGAA	CAGGATATCC	360

AGGTAAGTAG AGAGTGGGCA TTGATAAAAA TATCTGGTGG AGAAGCCTAG GATTTCAACT	420
TTTGTGCAGA GGATTCCTGT TGGGACAGCT TTACCAGAAA AGAATAATAG CGGATATGTT	480
CATCCAAACT AAGAACTTTC ATGCATCTTG CATTGTTACA TAGCCTGTGG ACTCGAG	537

## (2) INFORMATION FOR SEQ ID NO:1189:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 65 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1189:

GAATTCGGCC TTCGTGGCCT AATTGAATTC TAGACCTGCC TCGAGGATTC AATTAGGCCA	60
TCGAG	65

## (2) INFORMATION FOR SEQ ID NO:1190:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 398 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1190:

GAATTCGGCT TCATGGCCTA ACTTTATGTC ATAAACTGA TTAAATAAT CTTGAAATGG	60
CCATTAAGGA AGATCAGATT GCAGATAACT TTCAAGGAAT ATCAGGTCCT AAAGAAGACA	120
GCACAAGTAT AAAAGGTAAT TCAGACCAGG ATTCTTTTCT TCATGAGAAT TCGTTACACC	180
AAGAAGAGAG TCAAAAAGAA AATATGCCTT GTGGGGAAC AGCAGAATT AAACAAAAGC	240
AAAGTGTTAA CAAAGGAAAA CAAGGAAAG AGCAAAATCA GGACTCACAG ACAGAGGCAG	300
AAGAGCTACG CAACTTTGG AAAACCCATA CTATGCAACA AACTAAACAG CAAAGGGAAA	360
ATATTCAACA AGTGTCAAA AAAGAAGCTA AACTCGAG	398

## (2) INFORMATION FOR SEQ ID NO:1191:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 231 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1191:

GAATTCGGCC TTCATGGCCT AGCCATTGTT TATACATTAT TGCTGTCAGT ATTCACCAAG	60
ATGGTGCTAT TACCTGTTGT GGGGCAATTT TCCTTTCAT TTCTACATAT CTTGGAACAG	120
CTTTTGCTCT TATATTTTCA AGAATGTTCT AAAGCAGACA GCCTTGGAGG AGAGACAGAT	180
AGTGACTCCC TCCAGGGAAA AAGTCGGATT TGTGTGCTCC CCTGCCTCGA G	231

## (2) INFORMATION FOR SEQ ID NO:1192:

- (i) SEQUENCE CHARACTERISTICS:



- (A) LENGTH: 262 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1192:

```
GAATTCGGCC TTCATGGCCT AACTAACCG CAGCATGGCG GATCTGAAGC ACAGCAGCTT      60
GCGGTACGAG CTCCGAGCAG ATCTGGAGGA AGAAAGAATG CGGCAGAAAA TAGCAGAAAG      120
GACCTCAGAA GAAACAATAC GCATTTACTC TTTGAGACTG TTTTGAAGT GTATTGTTCT      180
GGCTGTTTTA GGGGCATGCT TTTATGCAAT ATACGTAGCA ACTGTCTTCT CGCAAGAGCA      240
CATGAAAAAG GAAATCCTCG AG                                     262
```

(2) INFORMATION FOR SEQ ID NO:1193:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 381 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1193:

```
GAATTCGGCC TTCATGGCCT AGAGGAAATT GCTAATGTAA CAGAGACATC AGATCCAGAA      60
TTCCAACGAA CCTGAATGAG CCCTGGTGTG GAACAGCCGT GAGCCTGTCC ACGTTTTTCT      120
CCTGATCTCT GCTTTTCATT AGTAATGAAT TTCCACTCCT TCTCCCCTTT CATGACAAAT      180
CAGTACAGTG AATGTAATTG CCACATCCAG CGATGCATCA TCTTCCCACT TTCTAGGCT      240
GCAGAGAAGG AAGCAGCCCT TGTGCAGCAA GAAGAAGAAA AGGCTGAACA ACGGAAAAGA      300
GCTCGGGCTG AGAAGAAAGC GTTAAAAAAG AAGAAAAAGA TCAGAGGCCC AGAGAAGCGC      360
GGAGCAGATG ATGGACTCGA G                                     381
```

(2) INFORMATION FOR SEQ ID NO:1194:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 294 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1194:

```
GCGATTGAAT TCTAGACCTG CCTCTCTTAC CCTTGGCTTA CTAATATATT CTTAGTGGCA      60
TTTCATTTGG TGGTACTGGT GGCGCATTCA AACAGGACAC TTGTATCTGA GTGAGCAGCT      120
GGAGCAGTAA GAATGACAAC ACTTGGTCTC TGCAGATTGG CTGGACCCAC CACTCTGGTG      180
CTAGTGCTGG CTTGGTGGCT GAGGGAACAA GCAGGAAGTA GAAGAGGAAA TGAGATGTGG      240
TGGGAGTGGG AAGAGAGGAC AGATTGGGGA GGGGAGGGAA AGTGCAAAT CGAG                                     294
```

(2) INFORMATION FOR SEQ ID NO:1195:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 262 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1195:

GCGATTGAAG TCATTGCCAC GCCTACTAGT TTGCACTAAA GGAAAGTCAG TTTGGTATGA	60
ATTACAATGG CCAACGTTAC ATTCTCCTCC GTTTTGTTTT TTTTTTTTAA TCTCAATTC	120
TCTTACTTTT CTTATTCCCC CTATGCTGAT GCCAATCAGT TTCTTTTGGG AAAGTTTTAA	180
CAGATCGGTT TTATGTTTTG AAGTACAGCA AGTATTTTCAT CCTCTCTTTA AAATACAAAA	240
CCCAGAAACC CAGGAGCTCG AG	262

(2) INFORMATION FOR SEQ ID NO:1196:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 266 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1196:

GAATTCGGCT TCATGGCCTA GACCGTCTCA AAGAAAACAC ATATACCTTT TGCTCAGATT	60
ATTGTTAAAT TTTACCTCAT TTACTTTATC AATTGCTCTT TCTCTATTTA TGTGTATCAG	120
ATTATTGTTA AATGTTACCT TATTTGCCTT ATCAATTGCT CTCTTTATGT ATGTTTGTGT	180
GTAATGTTGC ACATGCAAAT GCACACAAAT ATATGTTTCT GAATTTTGTG AGAGTAGATT	240
GCATACATTA TGGGACCTGC CTCGAG	266

(2) INFORMATION FOR SEQ ID NO:1197:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 232 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1197:

GAATTCGGCC TTCATGGCCT AAGAAACACT TTAAAAATC TTCACTAGT TATTTTGTAC	60
ATAGATAAGA TAGTTGATTC CCAGCTTTTA TCTGTAAAGT TGTCATAATT GGAATTAAC	120
TCGGTGATTC TGTTGTATAA AACATTGTTA TATTTTATAG TGTGTGCGGA TTTAGGCAA	180
ACAAGAAAAT ATTAGAGTGA TGCAATTGGC TTTGTTCCAG GGGATGCTCG AG	232

(2) INFORMATION FOR SEQ ID NO:1198:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 302 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1198:

```

GACCTTTACC ACTAAGTGGA GCCAACTTTA GCACCTTGCT AATGAATCTG GGTCCTGAGA      60
ATTGTGCAAC ACTGCTGCTC TTTGTTTTAC TTGAGAGTAA AATTCTGCTG CATTCTCTTA      120
GGCCAGCTGT CTTGACTGGG GTAGCTGAAG CTGTTGTAGC TATGATCTTT CCATTTCAGT      180
GGCAATGCCC ATATATTCCC CTTTGTCTC TTTCACTGGC TGCAGTGCTT AGTGCACCTT      240
TACCATTAT AGTTGGAGTT GACTCAAGGT ATTTTGATCT TCATGACCCA CCAAGGCTCG      300
AG                                                                                   302

```

## (2) INFORMATION FOR SEQ ID NO:1199:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 231 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1199:

```

GCCACTGCTC CTGGCCAGGA CTCTCTTATT AGGTTTGACA TTCAAGAGT TTAGAAATTA      60
CCTTCCAGAA TTCACAGGTA AAAGCCAGAC CTCTCCTTGG TGAAGATACA ATTCTTTACA      120
ATTTTACAAT AGTTAAGTAT ATTTTATCAG TCTATATTGG CTGTTTAGTT GACAAACCGT      180
TAAAAATTGG TGACAGTCCA GATGTGGTCA CTCATGCCTC TAATCCTCGA G                231

```

## (2) INFORMATION FOR SEQ ID NO:1200:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 235 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1200:

```

GAATTCTAGG CCTGACCCAG CCCCCATGGC TTCAGAAGAG CTACAGAAAG ATCTAGAAGA      60
GGTAAAGGTG TTGCTGGAAA AGGCTACTAG GAAAAGAGTA CGTGATGCCC TTACAGCTGA      120
AAAATCCAAG ATTGAGACAG AAATCAAGAA CAAGATGCAA CAGAAATCAC AGAAGAAAGC      180
AGAACTTCTT GATAATGAAA AACCAGCTGC TGTGGTTGCT CCCATCACTC TCGAG          235

```

## (2) INFORMATION FOR SEQ ID NO:1201:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 119 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1201:

```

GAATGAGAGG TCAGAGTATT CCATTGCACA CGCACCCTGG GGCTGACAGA CTTGTGCCCC      60
CTAGCCTTCA TGCATGCCCA AGCACTGGCA GCTTTGCAGC CCCTGCCCCA CGACTCGAG      119

```

## (2) INFORMATION FOR SEQ ID NO:1202:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 366 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1202:

```
GATTGAATTC TAGACCTGCC TCGAGATTCT TTGAGCACTT TCCCCCATCC CCAGGGCCAC      60
AGATCCCCTT CTTACTTGT TGGGGGGAGG TCTGGAGCAC CTCGCCAATG CCCTTCCCCC      120
ATCCGGCTGG GTCCTTCCAG TTATTATTTT GTGTATTAT TTTATTTATCT ATTTATTTATT      180
CTATTTAATC TCTTGGCCTC ACCCAGGGAC CGTCTGGCTT CCCCAGCTGG ACTGGGAGGT      240
CAGGAAGCCA GGCAAGGAGA GGGACAGCAC AGGCCACAGA GGGCTGCCCC CACCACACAC      300
ACCCCCGCGT CTCGGGAGAA ACCCACCTC TTCAGAGCCT GCACTCGCTA AGGAAGGGGA      360
CTCGAG
```

(2) INFORMATION FOR SEQ ID NO:1203:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 342 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1203:

```
GGTGAGATGG AAAAGGAGTT TCCTGAGCTT ATCCGAAGTG TTGGTTTACT TACGGTAGCT      60
GCTGACTCTA TCTTACCAA TGGCAGTGAA GCAGTTACTG AGGAGGTATC TCAAGTATCT      120
CTCTCAGTAG ACGACAAAGG TGGATGTGAG GAAGACAATG CTTCTGCAGT CGAAGAGCAA      180
CCAGGCTTAA CACTGGGGGT GTCATCATCT TCAGGAGAAG CTCTGACAAA TGCTGTTCAA      240
CCCTCCTCTG AGACTGTGCA GCAAGAATCC AGTTCCTCCT CCCATCATGA TGCAAAGAAT      300
CAGCAGCCTG TTCCTTGTA AAATGCAACC CCCAAACTCG AG
```

(2) INFORMATION FOR SEQ ID NO:1204:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 645 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1204:

```
GAATTCGGCT TCATGGCCTA CGTCTTTCTA ACTATCTATG GGGTGGAGCT GTTCCTGAAG      60
GTTGCCCGCC TGGGCCCTGT GGAGTACTTG TCTTCCGGAT GGAAGTTGTT TGACTTCTCC      120
GTGACAGTGT TCGCCTTCCT GGGACTGCTG GCGCTGGCCC TCAACATGGA GCCCTTCTAT      180
TTCATCGTGG TCCTGCGCCC CCTCCAGCTG CTGAGGTTGT TTAAGTTGAA GGAGCGCTAC      240
CGCAACGTGC TGGACACCAT GTTCGAGCTG CTGCCCCGGA TGGCCAGCCT GGGCCTCACC      300
CTGCTCATCT TTTACTACTC CTTGCCATC GTGGGCATGG AGTTCTTCTG CGGGATCGTC      360
TTCCCCAACT GCTGCAACAC GAGTACAGTG GCAGATGCCT ACCGCTGGCG CAACCACACC      420
GTGGGCAACA GGACCGTGGT GGAGGAAGGC TACTATTATC TCAATAATTT TGACAACATC      480
CTCAACAGCT TTGTGACCCT GTTTGAGCTC ACAGTTGTCA ACAACTGGTA CATCATCATG      540
GAAGGCGTCA CCTCTCAGAC CTCCCACTGG AGCCGCTCT ACTTCATGAC CTTTACATT      600
GTGACCATGG TGGTGATGAC GATCATTGTC GCCTTTATCC TCGAG
```

## (2) INFORMATION FOR SEQ ID NO:1205:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 336 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1205:

```
GAATTCGGCC TTCATGGCCT ACAGTACACA AGTGCTAGCC CTAGCAGCTC GCGATGTGCT      60
TCAGCAGAGC AGACGCTGCG GATAACTACC CTTTGGGAAC ATGTCAACAG AGGAAACTTT      120
TTCCTCACTT CCATCCCCCG AATTTGATTG GGAACAAGTT TGTCCCTCTT AGGGGATCAC      180
CCACAGAGG GCCTGGGTGT TATTTTTCAG ATGGATATGG CTTGGCATAC GACTTATCTA      240
AGATCCCAAC CAGTATAAAA GGATATACTT TGGGAGCCAG AACAGCTGTG AGGTTTAAGC      300
CAATACAGAA GGAAATGACA CCTCATGCAG GCAGGT                                336
```

## (2) INFORMATION FOR SEQ ID NO:1206:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 309 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1206:

```
GGAAATCTG AACAAACAAC CGAATAAGCA GTGGAAGAAA TCACAAACAT CTACAAATCC      60
AAAAGCTGCT CTCAAGTCTA AGATAGTTGC TGAATTTTGA TCTCAGGCC TAATTGAAGA      120
GCTGTTGCTA TACAAGCGCT CAGAAGATCA GATAGAACTG AAGGAAAAGC AGTTGTCAAC      180
TATGAGGGTG GATGTGTGCA GCACAGAAAC TCTCAAATGC TTAAGAGATA AAACAGGTGG      240
GAAGAAGTTC TCCAAAGAAT TTGAAGAGGC AAGCTCCAAG CTGGAAGAAT TTGTGAATGG      300
ATCACTCGA                                309
```

## (2) INFORMATION FOR SEQ ID NO:1207:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 341 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1207:

```
GAATTCGGCC TTCATGGCCT ACAGCTTTTG AGCGGAAACC TGAAAGAAGG TTTGCAGTAT      60
CTTCAGAGTC TGAATTTTGA GCGGATAGTG ATGAGCCAGC TAAATCCCCCT GAAGATTGTC      120
CTGCCCTCAG TGGTTAACTT TTTTGCTGCA ATCACAAATA AGTACCAGCT CGTCTTCTGC      180
TACACCATCA TTGAGAGGAA CAATCGCCAG ATGCTGCCAG TCATTAGGAG TACCGCTGGA      240
GGAGACTCAG TGCAGATCTG CACAAACCCG CTGGACACCT TCTTCCCTT TGATCCCTGT      300
GTGCTGAAGA GGTAGGTACT TTAAACGTT GACATCTCGA G                                341
```

## (2) INFORMATION FOR SEQ ID NO:1208:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 588 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1208:

```
GAATTCGGCC TTCATGGCCT ANCGAGCGGC AGGTGTGCAC AGAGGTNCTC CACTTTGTNT      60
TCTGAACCTCG CGGTCAGGAT GGTTTTCTCT GTCAGGCAGT GTGGCCATGT TGGCAGAACT      120
GAAGAAGTTT TACTGACGTT CAAGATATTC CTTGTCTATCA TTGTCTTCA TGTCTNCTG      180
GTAACATCCC TGGAAGAAGA TACTGATAAT TCCAGTTTGT CACCACCACC TGCTAAATTA      240
TCTGTGTGCA GTTTTGCCCC CTCCTCCAAT GGTACTCCAG AGGTTGAAAC AACAGCCTC      300
AATGATGTTA CTTTAAGCTT ACTCCCTTCA AACGAAACAG AAAAACTAA AATCACTATA      360
GTAAAAACCT TCAATGCATC AGGCGTCAAA CCCCAGAGAA ATATCTGCAA TTTGTCATCT      420
ATTTGCAATG ACTCAGCATT TTTTAGAGGT GAGATCATGT TTCAATATGA TAAAGAAAGC      480
ACTGTTCCCC AGAATCAACA TATAACGAAT GGCACCTTAA CTGGAGTCCT GTCTCTAAGT      540
GAATTAA AAC GCTCAGAGCT CAACAAAACC CTGCAAAACC TACTCGAG      588
```

(2) INFORMATION FOR SEQ ID NO:1209:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 418 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1209:

```
GAATTCGGCC TTCATGGCCT ACAAGGATAG AATTCATTCC ACCTATATGT ACTTAGCAGG      60
GAGTATTGGT TTAACAGCTT TGTCTGCCAT AGCAATCAGC AGAACGCCTG TTCTCATGAA      120
CTTCATGATG AGAGGCTCTT GGGTGACAAT TGGTGTGACC TTTGCAGCCA TGGTTGGAGC      180
TGGAATGCTG GTACGATCAA TACCATATGA CCAGAGCCCA GGCCCAAGC ATCTTGCTTG      240
GTTGCTACAT TCTGGTGTGA TGGGTGCAGT GGTGGCTCCT CTGACAATAT TAGGGGGTCC      300
TCTTCTCATC AGAGCTGCTT GGTACACAGC TGGCATTGTG GGAGGCCTCT CCACTGTGGC      360
CATGTGTGCG CCCAGTGAAA AGTTTCTGAA CATGGGTGCA CCCCAGGGAG TGCTCGAG      418
```

(2) INFORMATION FOR SEQ ID NO:1210:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 379 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1210:

```
GAATTCGGCC TTCATGGCCT AGGTTGCAAC TGCCACGCAG CAACTGCCAC GCAGAAAAAG      60
GAGGGGTTGA AAAGGGAGTA GCTTCTGATA TTCAGAAGCT ATTGGAAGAG ATGCTCAAAG      120
AAGAAAAAAT TACCATAATC CAATAAAGAA GAAGACCTGA GATCCAGGAA GCAGATGATC      180
TGAAGTGCAG AGAAAGTTCA GGAAAGTTCC CTCATTATG ATGATGGGAA ATAACAGTAA      240
ATTCTGTACA GCAGTCTTGG ACAACAACCA ATCTAACTG GCACAGTGCA GAGGCAATCA      300
ACAGAGAACA TAATATTGAT AGAATGCCTG ACGCTTTTGA TTGTATTAC AGGAAACATA      360
```

AACAAATTGGA AAACCTCGAG

379

## (2) INFORMATION FOR SEQ ID NO:1211:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 380 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1211:

GAATTCGGCC	TTCATGGCCT	AGAAACAGGG	TATTATTTAT	CCTCTTAGCA	TATGTTTTGT	60
AATGATTCTG	TTACATCAGA	GCTTCTGTTG	ATGAGTGCCA	CTAAAGTGAG	ATTGTTGATG	120
AGGATTGGCC	TTATTTTTTT	GTGGTTCTAT	TCAATACTTG	CCACAGCATT	TATTTTCTAA	180
AACATTTCTA	CGGTCTATAC	TTATCAGTGT	CTGATCACAT	GCAGGCACTG	GTCAAGGTGG	240
AGCATGGTCG	AGGCGTTCTT	ACTGATACAA	ACTCGTGCCT	TCTCTTGGAC	ACAAGGAGCC	300
CATGTTCTGG	TTAACTCTGT	GTTCAATTTAT	TTCACTTGTC	ATGCATCGCC	TCTATCTTCT	360
CCCTTTATTG	CGTCCTCGAG					380

## (2) INFORMATION FOR SEQ ID NO:1212:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 430 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1212:

GAATTCGGCC	TTCATGGCCT	AGTGAAGGGT	ATTGGTGGTG	TTTTTCCCC	TTTACCTCTC	60
ATTTGGGCAT	TTTAAAATAG	GAGGCCAACT	TCATTTACTC	CTGTTTAGTA	AATCTAAATG	120
AGTGTAAGTT	TTAAATTAGA	TTTTTTCCCA	AAACCCTTCA	GAAGGTCTAG	TATTAGGGCA	180
GTTGATAAGT	AAGTGAAGC	ACCTTGGGCA	GGACCCAGTG	ACCTGTCCTT	TTACTTATTA	240
CAGCACCTGC	ACGGGAAGCA	GATCTGGAGG	ATGAAAATTA	ACCTGTTACA	GTGTGTGTAT	300
GTTTTAGGGT	GTGTGTTTTT	CGAATACTGT	GGGGAGTTCC	CTTTTTCTT	CTCCCATGAT	360
GGATTCTTTT	GTCTTTCTAG	AGATACCATA	GGAGGATATC	TGGATTTTTC	ACCTAAGGCA	420
GTGTCTCGAG						430

## (2) INFORMATION FOR SEQ ID NO:1213:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 437 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1213:

CTCGAGTCTC	TCCTGTTAAT	CTCCTATTTA	TAAAAGGATC	ATGAGGCTGC	CAAGTGCTAA	60
AAATGGAGAT	GGTCTAGTAA	CTAGAAAAC	CCCCACCCCA	GGGAGCACAC	CTACGTATGT	120
CCCTACAACC	TAATAATGTG	ATGTGTTTTG	GAACACAGAC	ATTAGAAGTT	CATGAAGTTT	180
TAATGTTGA	TTCTTTCCCA	AGCATCATCA	AGTTATGATT	TAGGCAATGT	ATGATTGAAA	240

TGCATTTCATT	CATCACGCAT	AGGCACAATC	ACAGAAATAT	TGCACAAAAT	ATGTCCCTGA	300
CTGAAACTGA	GAGGTACAAA	AACGTATTTC	ACTCTTCGTA	AAGAAGTTTG	TGAGGAAATA	360
CAACTCTGCG	ATCGTATAGA	CATGTTTCCT	GATAATACAC	TGACATTACAC	AAACAGTAGG	420
CCATGAAGGC	CGAATTC					437

## (2) INFORMATION FOR SEQ ID NO:1214:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 295 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1214:

GAATTCGGCC	TTCATGGCCT	AAAAAGAAAT	GATGTTTTCT	CTCCAACAGT	GTGTTTTTAT	60
TTCTTTTCATC	TACCTGTCCA	GTAATCATTT	TAAAAAAGAA	AATAGCATT	GTTACTGCCT	120
GTGTGATGTG	GCCCCGGCTT	ATCTGCACTC	TCCTCCTGT	TTACTGTTCC	AGCCACCTCA	180
GCTTTTTCTC	TGTTCTCTA	GCATGGCAAG	CTTATTCCTG	CCTCATGACT	CTTTCGCATG	240
GTGTTTTCAG	ATTTCTCTG	TAGCACTCTG	CAGCATTGT	CCACCTAAAC	TCGAG	295

## (2) INFORMATION FOR SEQ ID NO:1215:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 265 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1215:

GACCTGCCGC	GAGTGTGTT	GATAGCTGC	TCAAGATCAC	ACAGCTAGTA	GGTAGTGAGG	60
CTAGGATTTA	GACTTAAGTA	GTTGGTTGTA	GAGTCCACGT	GTTTAACCAT	TACACTACTT	120
TGATAACAAT	ATCATTATTA	TTATTATCTT	TTTTTTTTTT	TTGATACAAA	GTCTCACTTT	180
GTGCCCCAGG	CTGGAGTGCA	GTGGCATAAT	CATGGCTCAC	TGCAGCCTCG	AACTCCTGGG	240
CTCAAGGGAT	CCCCCACTC	TCGAG				265

## (2) INFORMATION FOR SEQ ID NO:1216:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 344 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1216:

GAATTCGGCC	TTCATGGCCT	AAAAGAAGGA	GCGCGAGAGA	AAAAAGCGAG	ATGAAGAAAA	60
AGCGAAACTG	CGGAAGCTGA	AAGAAAAAGA	AGAGTTAGAA	ACAGGTAAAA	AGGATCAGAG	120
TAAACAAAAG	GAATCTCAAA	GGAAATTGTA	AGAAGAAACT	GTAAATCCA	AAGTGACTGT	180
TGATACTGGA	GTAATTCCTG	CCTCTGAAGA	GAAAGCAGAG	ACTCCACAG	CTGCAGAAGA	240
TGACAATGAA	GGAGACAAAA	AGAAGAAAGA	TAAGAAGAAA	AAGAAAGGAG	AAAAGGAAGA	300
AAAAGAGAAA	GAGAAGAAAA	AAGGACCTAG	CAATGCCACT	CGAG		344



## (2) INFORMATION FOR SEQ ID NO:1217:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 371 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1217:

```

GAATTCGGCC TTCATGGCCT AGCCATTATT AAGACCTGTG ACAAAAACTA TAGACATGAT      60
GCAGTGAAGA TTCTGAAACT CAAGCCTGTG CTGCAGAGAA GTCTCACTCA CCCTCCTACC      120
ATAGCCCCAG AGGGGTCCAG ACCCCAGGGT GGTTCGCCA GCAGCAAGCT AGACAGTGGA      180
TTTGCCAAGA CATCTGTTGC TGCTTCTCTA TACCACACAC CCTCTGACTC CAAGGAAATT      240
ACTCTTACTG TTACTTCAAA GGACCCTGAA AGACCTCCTG TTCATGACCA ACTTCAGGAC      300
CCACGACTGC TGAAGAGGAT GGCATTGAG GTCAAAGGAG GAATATTCCT TTGGGATCCA      360
CAACCCTCGA G                                     371

```

## (2) INFORMATION FOR SEQ ID NO:1218:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 349 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1218:

```

GAATTCTAGA CTCCCGCGCG TACTCGGCCG CCTGAGCGAT ACTAAAATGT CTGATGATGC      60
TGGTGACACC TTAGCCACTG GAGACAAAGC AGAAGTTACT GAGATGCCTA ATAGTGATTG      120
TTTACCTGAG GATGCAGAAG TGCAATTGTA TTCAGCTGCA GTTTCACATG AGCCAACACC      180
AGCTGACCCC AGAGGGGAGG GGCATGAAAA TGCAGCTGTG CAGGGTGCGAG GGGCTGCCGC      240
CATTGGGCCC CCTGTGCAGC CTCAGGATGC CAACGCCCTG GAGCCCCCTC TCAATGGAGA      300
CGTGACTGAG GATACACTTG CTGAATGTAT TGATTCTCTG AGCCTCGAG                                     349

```

## (2) INFORMATION FOR SEQ ID NO:1219:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 392 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1219:

```

GAATTCTAGA CCTGCCTCTC CTGCACTTC CTTGTGTTTT CTCTGTGACC GGCCTCTGTT      60
CCGACCACCC TTTTGGAAGT GCTGTCCTGA TGGTCACCAG TGCTTTCCTA ATAGCCAAAT      120
TCAGTGGCCT GTCCTCAAGC TCCCCGAAT TCTTTGGCCA CACAGATCAA CCTCTAAGTC      180
CTGGGAATC CCTCCTTGT GATTTTGAGG CGCTGTGTGC TGCAGGCTCT GCTTTTCCCT      240
CCCATCACCC CATGGTTCTT CCTTCTCCTC TGACCCCTCC CTCTTCCATT TCTCCACAG      300
CTCTGTCCAC AGCCACAATG TCCATAGGAG CCTGCCACAC CCTTTATCCA ACTGCAGCCT      360
CAACCCACCT GCAAAGGACC CCTGAACG AG                                     392

```

## (2) INFORMATION FOR SEQ ID NO:1220:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 598 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1220:

```

GCAAGCTACT TCTTCAACAG CTGTATCTGC TTCAAAGCCG ACTGCCTCTC CTTCAAGCAT      60
TGCAGCAAAC AATTGTACTG TGAATACGTC ATCAATTGCA ACGTCTTCAA TGAAGGGTCT      120
TACGACTACA GGAAACTCGT CTCTTAATAG CACATCTAAC ACTAAAGTAT CAGCAGTGCC      180
TACAAATATG GCTGCCAAGA AAAACATCTA CCCCCAAAAT AAATTTTGTT GGTGGTAATA      240
AGCTGCAGTC NACAGGAAAT AAAGCAGGAG ACCTTAAAAG GGACCCGAAT GTGTTAAAAG      300
TAATCCTGTC ATTTCTGCTG TGCAGATTCC TGAAGTAAAG CAAGACACAG TGTCAGAACC      360
AGTCACACCT GCATCTCTTG CTGCTTTACA GAGTGATGTG CAGCCAGTGG GCCATGATTA      420
TGTGGAAGAG GTACGAAATG ATGAAGGAAA AGTAATTCGG TTCCATTGTA AATTATGCGA      480
GTGCAGCTTT AATGATCCCA ATGCTAAGGA GATGCACTTA AAAGGGCGAA GACACAGACT      540
TCAATATAAA AAAAAAGTAA ATCCAGATTT GCAAGTAGAA GTAAAGCCAA TACTCGAG      598

```

## (2) INFORMATION FOR SEQ ID NO:1221:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 338 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1221:

```

GAATTCGGCC TTCATGGCCT AGAGGAGTCC TGTCAGTTCG TTCTCTGCTG TGTCCTCAAG      60
ACCATGAATC ATGGCTGGCA TGTAGTAGGC ATTTAATAAT ATATGTTCAA CAAGGATTTG      120
GCAGTCTTGG AGGGCAGAAA AGGAGGTGGG GAAGATTTT AAATAACATT TTTTAAAAG      180
TCACATTGTC CTACAATACC GATTTTTCTT GCATATTTAG GAAATTGAGG GTTTTTTCT      240
AAAACATGCG GACATATGGG AAATAGGATG CAACATTTGC ACTAATGTTT CAGACACAGT      300
TAGAGGTTTC CAAGAGATTT TCGCTGGGT CACTCGAG      338

```

## (2) INFORMATION FOR SEQ ID NO:1222:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 335 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1222:

```

GCTCGAGTGA CATGGAACT GAGGTCTTAG AGACACGTGT AATGGAGAGG AGAGGAATGG      60
AGACCTGTGC GATGGAAACC AGAGGGATGG AAGCAAGGGG CATGGATGCA AGAGGATTGG      120
AGATGAGGGG CCCTGTCCCC AGTTCAAGAG GCCCTATGAC TGGTGGAATT CAGGGTCTCTG      180
GTCCCATTA TATAGGGGCA GGTGGCCCTC CTCAGGGACC CAGACAGGTC CCAGGCATTT      240
CAGGGGTGGG GAATCCTGGA GCTGGTATGC AGGGTACAGG CATACAAGGA ACAGGCATGC      300

```

AGGGAGCAGG CATACAAGGA GGAAAAATGC TCGAG

335

## (2) INFORMATION FOR SEQ ID NO:1223:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 534 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1223:

GAATTCGGCC	TTCATGGCCT	AGGTACAGAC	TGAACCCAGG	AACCCGGGTA	TCTGCGTCCT	60
GAGTCCCAGC	CCCCACCAGG	ACTGGGGCCT	CCTCACATCT	ACTCTGAGGA	CAGAATCTAT	120
TGGCAGAGTC	TTCCTTTTTG	TTTGGGATGC	TGGGTTTGAG	AACATGCCGG	GAACCAAGAG	180
TCGTGACTAA	TCCAATTTTG	AGCGCTTGAG	GACCAAGTGG	AAAGAAACTC	AAGCAGATTT	240
AAAGTGACCA	ATGTCTGGTT	ATGCCCTTGA	GCCCCTGCAG	AAGCAAACAA	TAATTTTGTG	300
TGTGTGTGGA	CAATACATT	TGTATTCCAG	ATCTCACAGA	ATTTCCTACA	CAAAGAAATT	360
TGCAAGGAAA	ATGGACATTG	CACCCTAAAA	ATTAACAAGG	AAAGAAGGTA	CCAGGAGCAA	420
CAACTCATTA	ACAGGAACAG	AAACAATATT	GCAAATATTT	CAGATGCAAA	GTGTATCCGA	480
CTTATAATAC	AACTGTCCCT	ACTGTGTCTA	AAGAAATGAA	AGGCAATCCT	CGAG	534

## (2) INFORMATION FOR SEQ ID NO:1224:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 354 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1224:

TCACGAATGG	CCCACAGGGA	TCAGGAATGG	TATGATGCTG	AAATTGCCAG	AAAAC TGCAA	60
GAAGAAGAAC	TTTGGGCTAC	CCAGGTGGAC	ATGAGAGCCG	CTCAAGTAGC	TCAAGATGAA	120
GAAATCGCTC	GACTTCTAAT	GGCTGAAGAA	AAGAAAGCTT	ACAAAAAGC	CAAGGAGCGG	180
GAGAAATCAT	CTTTGGACAA	AAGAAAGCAA	GACCCCGAGT	GGAAGCCAAA	AACAGCTAAA	240
GCAGCAAATT	CCAAGTCAAA	AGAGAGTGAT	GAACCTCACC	ATTCTAAGAA	TGAAAGGCCA	300
GCACGGCCAC	CACCACCTAT	CATGACAGAT	GGTGAAGATG	CGGATTCTCT	CGAG	354

## (2) INFORMATION FOR SEQ ID NO:1225:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 488 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1225:

GCAACAAAAC	AAAACAAAAC	ACACTTATGG	TAACCCATTG	TGTTGAGGAG	TCCAAAAC TC	60
GAATAAAGCG	CCTCATTGCC	TTTAACTGGT	TCTGTGGCAG	TGAGATCATC	ATCCTTATGC	120
TGGCTCACCT	AGTGTCTCTC	TCTCTCTCCC	GTTTTCTCTC	TCCCTCTCTT	ATCCCCTTGA	180
CTCTCCCCAC	TTCTCATCTT	CTCTTTAGAT	TATGTGGTAG	CTATCCTCAA	GAGCTCATAG	240

```

TGCCTGCCTG GATCACTGAC AAAGAACTGG AAAGTGTATC AAGTTTCAGG TCCTGGAAGC      300
GCATCCCTGC CGTCATCTAC AGGCACCAGA GCAATGGAGC TGTCAATGCC CGCTGTGGAC      360
AGCCAGAGGT TAGCTGGTGG GGCTGGCGAA ATGCAGATGA TGAGCATCTG GTACAGTCAG      420
TAGCCAAAGC TTGTGCCTCT GACTCCCGAT CGAGTGGCAG CAAGCTGTCA ACTAGGAAAC      480
GACTCGAG                                         488

```

## (2) INFORMATION FOR SEQ ID NO:1226:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 328 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1226:

```

GATCCCCACC AAAACAGGAA AAGAAGTGCT CTCGTGCAGG GCTTGTTTAC AGTGAGCCTG      60
GCTGGCTCCT CATGATCTCT GAGTTTAAAA TGTGCCAGCA GATGATTTTA ACGATCCCAT      120
CAAAAATTGT TGTCTGGATC AGTTTCGAGC TAGCGTTTCC TTGCAGAGGC CATTCTTCTCT      180
TTTTTGACAA AAGTTGGGTC GGCCAGGTGC AGTGGCTCAT ACTTGTGATC CACCTGCCTT      240
GGCCTCCCAA AGTGCGGGGA TTCTAGGCAT GAGCCACCAC ACCCTGCCAG AAAAATGGAT      300
TTAAAAAGAG AATTACAAAG TACTCGAG                                         328

```

## (2) INFORMATION FOR SEQ ID NO:1227:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 527 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1227:

```

GAATTCGGCC TTCATGGCCT AAAATTTTTA AAAAATATTT ATAATGATAG TTAGAGAACT      60
GTTTATATGA GGATCAGACA TTGTTTCAGC ACTGGATCTC CTCTGTCCCC TCTCTTGCTA      120
CAGCATACAG CCCAGAGACA CACATGTAAA AGTAGATGAT CTCTGTAAAC TTCAGCTGCA      180
TTTCTGTATG TGTAGGATTG TCCTANTATC AGATATCCTT TGAGAAAGAG TTGGAGAGGC      240
ATGGAAGGAA GCATATTCCT GACCTCCCCC CTTTTTAGCT AAAGATACAA ATTCAGAGCT      300
GTTTGAAAAG GGCTTAGAAT AATATTAATT AAACATATTC TATAATACAA AGAGAAGTAC      360
TTTTTTAAAA TACATTTATT TTCTTTCTT TTTTAGCAGG CATTCTGAC AGAAAATCTT      420
TAGGGCCAAT TAGAGTTTCT TTCTGACTTT TAATTGCCCT CTGCCTTTTG GGAAAGTGTT      480
GAAAAAAGCT CTGGAACAAA ATATGCTGGT CAAGGTCGCA ACTCGAG                                         527

```

## (2) INFORMATION FOR SEQ ID NO:1228:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 278 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1228:

GAATTCGGCC	TTCATGGCCT	AAGAAAACAG	CCTAGAATTA	AACCTCCAAG	ATGAGTGTGA	60
GATGAAGCCT	TTCCACCTAT	CCCAACAAGG	TTTAAAAAAA	ATAAAAACTA	GAATGGGGCT	120
ACTACACAAC	AGCCCTTTGC	CCCACCCAAG	GCTCATTCCC	TAGAGGCAAG	TGTACGAGTT	180
TATTTCTCCT	TGAAATTATT	TCCATATCTC	CAAATAGTGT	TTATACCACT	CAAGGCAGAG	240
ATAGCAATTT	GCCTACCCAG	TATACATTTT	CCCTCGAG			278

## (2) INFORMATION FOR SEQ ID NO:1229:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 603 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1229:

GAATTCGGCC	TTCATGGCCT	AGCCACCTTG	AAGCTCTCAA	ATATCACTGT	TGTGAATACA	60
GAGAGGGAAA	ACCAACTGTA	ACGTGCCACC	CAAATTTT	CAGATTAATA	CATCATTCAT	120
CAGACTTCAT	TCGTGATCTC	GAAGAGTGAC	ATCAGTCTTC	CTTGGAATAT	GAAGAGAATT	180
TCTTTGGTTC	TTCTTTTGCA	TTTCTATTTG	ATTTATTTTA	TTTTATTTTA	TTTTATGTTT	240
TTTGGTACAG	AAAGCTCATT	ACTAGTCCTG	TCCAGCAACG	TGCCTCTCCT	GGCCCTAGAG	300
TTCTTGGAAG	TAGCCCAGGC	CAAAGAGAAG	GCCTTTCTCC	CCATGGTCAG	CCACACGTTT	360
CACATGCGCA	CAGAGGAGTC	TGATGCCTCA	CAGGAGGGCG	ATGACCTACC	CAAGTCCTCA	420
GCAAACACCA	GCCATCCCAA	GCAGGATGAC	AGCCCCAAGT	CCTCAGAAGA	AACCATCCAG	480
CCCAAGGAGG	GTGACATCCC	CAAGGCCCCA	GAAGAAACCA	TCCAATCCAA	GAAGGAGGAC	540
CTCCCCAAGT	CCTCGGAAAA	AGCCATCCAG	CCCAAAGAGA	GTAACATCCC	CAGAGCCCTC	600
GAG						603

## (2) INFORMATION FOR SEQ ID NO:1230:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 362 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1230:

GAATTCGGCC	TTCATGGCCT	ACCGGGCAGT	TAGGCCCAAG	CGCCGGGTTC	AGGCCTCCAA	60
AAACCCCTG	AAAATGCTGG	CGGCAAGAGA	AGATCTCCTT	CAGGAATACA	CTGAGCAGAG	120
ATTAAACGTT	GCCTTCATGG	AGTCAAAGCG	GATGAAAGTA	GAAAAGATGT	CTTCCAACCTC	180
CAACTTCTCA	GAAGTCACCC	TGGCGGGTTT	AGCCAGTAAA	GAAAACCTTCA	GCAACGTGAG	240
CCTGCGGAGC	GTCAACCTGA	CGGAACAGAA	CTCTAACAAAC	AGCGCCGTGC	CCTACAAGAG	300
GCTGATGCTG	TTGCAGATTA	AAGGAAGAAG	ACATGTGCAG	ACCAGGGTGG	TGGAACCTCG	360
AG						362

## (2) INFORMATION FOR SEQ ID NO:1231:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 468 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1231:

```

GAATTCGGCC TTCATGGCCT AGTCCCTGTT CAATTTCTCT CAGCCTCAAT ATCTTTTACT      60
TTAAACTAGG TAGGGTTACC AGTTCAATGA TCTGCTCATT AAATACTTAC TATACCTTAG      120
GTACTATATG AGAAGCTAGG AAAAGAGTGA TGAAAAAGAC ACACCTAGAG AGGGCATTGG      180
ATTATTAAAT CAGCAGCTAC TGTAAAGGTA TTAAAGTTCT GTGACAGGCA GCATTCTGGG      240
TATCACAGGA ACATCTTACA AGAATTTCTA ACTTCAGGAG GAGGGTTCAG AGAATTAGCC      300
AGGCCAGGGG TGAGAGTGTT CTTCCCGGAA GAGGGAACAA TGAAGACCCA GGAGGAGATA      360
CAGAGTATCT CGCTGTATT AAAATAACCA GAAATAGATT TATATATTTA GTACAGAGGC      420
TGAGGGGAAG AGAAGTGAGT GTGAGAAGAT CAAAAGGAGA AGCTCGAG      468

```

## (2) INFORMATION FOR SEQ ID NO:1232:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 400 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1232:

```

GAATTCGGCC TTCATGGCCT ACAATCATCT CAAACAGTTC CGGGTTGCTG CCCTTTTGGC      60
TTTCCTAGGT GCTACAGTAG CAGGCTGTTT TCCCCTTTTC CATAGAGGGG AATATTCTGC      120
ATCACCCCTT TGTTTGCCAT TTCCTACAGG TGAAACGCCA TCATTAGGAT TCACTGTAAC      180
GTTAGTGCTA TTAAACTCAC TAGCATTTTT ATTAATGGCC GTTATCTACA CTAAGCTATA      240
CTGCAACTTG GAAAAGAGG ACCTCTCAGA AAACCTACAA TCTAGCATGA TTAAGCATGT      300
CGCTTGCTA ATCTTCACCA ATTGCATCTT TTTCTGCCCT GTGGCGTTTT TTTCATTGCG      360
ACCATTGATC ACTGCAATCT CTATCAGCCC CCCACTCGAG      400

```

## (2) INFORMATION FOR SEQ ID NO:1233:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 418 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1233:

```

GAATTCGGCC TTCATGGCCT AGGATATAGA CCAAACCCAA ATCCTGTTGG ACAAGGGATT      60
AGACCACCTA TGGCTGGATG CAACAGTTCG GTAGGCGGCA TGAGTATGTC GCCAAACCAA      120
GGCTTACAGA TGCCGAGCAG CAGGGCCTAT GGCTTGCGAG ACCCTAGCAC CACAGGGCAG      180
ATGAGTGGAG CTAGGTATGG GGGTTCCAGT AACATAGCTT CATTGACCCC TGGGCCAGGC      240
ATGCAATCAC CATCTTCCTA CCAGAACAAC AACTATGGGC TCAACATGAG TAGCCCCCCA      300
CATGGGAGTC CTGGTCTTGC CCCAAACCAG CAGAATATCA TGATTTCTCC TCGTAATCGT      360
GGGAGTCCAA AGATAGCCTC ACATCAGTTT TCTCTGTTG CAGGIGCGCA CTCTCGAG      418

```

## (2) INFORMATION FOR SEQ ID NO:1234:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 325 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1234:

GAATTCGGCC	TTCATGGCCT	ACGCCTCTTT	AACACATGGG	CCTTTGTGTG	GACACCATCT	60
TTCCCTGAAA	CCTGTCTGCA	TCTTTTCTGT	CCCTTCTAAC	CATCCAGTTT	GTTCCTCCCC	120
AAGATGGGCT	GCCACAAGTT	GCCATTTCTT	GACTGGTGCA	TGGTTCCAGA	CAGCTCGCGG	180
GCAGACACAG	GGAAGGAATC	TTATCTCGTT	TTTGTTTTTT	TGTTGTTGTT	TTTGTTTTTT	240
TCTTTTTTGT	TGTGGTTGTT	GCTGTTGTTT	TGAAACGGAG	TCTCACTCTG	TTGCCAAGGC	300
TGGAGTGCAG	TGGCGCAATC	TCGAG				325

(2) INFORMATION FOR SEQ ID NO:1235:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 395 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1235:

GAATTCGGCC	TTTATGGCCT	AAAAAAAAAA	AAAGAAAGAA	AGAAAATGTT	GGATATAGTA	60
GGTCTGAGCT	TTATGGAGAA	AGAAGGTTTG	AAGTAGCTTC	TGGGATATGG	AAAAAGAACT	120
TATGAGAGAA	ACAGACTTCT	GGGAATCCTT	CAAGGACTAG	AAGAGAACAT	AGATTATGAA	180
AGAATGAGTC	ATTGATCAGT	GTAGTTGTAG	ATTAGAATAG	TTGGACAGTT	AGGATTTGCT	240
AGGCAGAAGA	ATGGAGGAAG	TCACGGCCTA	GGGAGTTAAC	AGTGTTAGGA	GCAAGAGAGG	300
TTTAACTAA	TGAGCCATGG	AGTTTAAGCA	GAGACAATAG	AGAATAAAGT	AAAATAGGAA	360
GAAAAATTTA	AAAAGAAAGT	AGAAAAGTCC	TCGAG			395

(2) INFORMATION FOR SEQ ID NO:1236:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 565 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1236:

GAATTCGGCC	TTCATGGCCT	ACACAATTCC	AAAGAAGGTG	GTGTGCCACT	TCAGTGGGAA	60
GGCCTATGCC	GACGAGGAGC	GGTGGGACCT	TGACAGCTGC	ACCCACTGCT	ACTGCCTGCA	120
GGGCCAGACC	CTCTGCTCGA	CCGTCAGCTG	CCCCCCTCTG	CCCTGTGTTG	AGCCCATCAA	180
CGTGGAAGGA	AGTTGCTGCC	CAATGTGTCC	AGAAATGTAT	GTCCCAGAAC	CAACCAATAT	240
ACCCATTGAG	AAGACAAACC	ATCGAGGAGA	GGTTGACCTG	GAGGTTCCCC	TGTGGCCAC	300
GCCTAGTGAA	AATGATATCG	TCCATCTCCC	TAGAGATATG	GGTCACCTCC	AGGTAGATTA	360
CAGAGATAAC	AGGCTGCACC	CAAGTGAAGA	TTCTTCACTG	GACTCCATTG	CCTCAGTTGT	420
GGTTCCCAT	ATTATATGCC	TCTCTATTAT	AATAGCATTC	CTATTCATCA	ATCAGAAGAA	480
ACAGTGGATA	CCACTGCTTT	GCTGGTATCG	AACACCAACT	AAGCCTTCTT	CCTTAAATAA	540
TCAGCTAGTA	TCTGTGACGC	TCGAG				565

(2) INFORMATION FOR SEQ ID NO:1237:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 298 base pairs
- (B) TYPE: nucleic acid

(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1237:

```
GAATTCGGCC TTCATGGCCT AACTGAGAA CGAGATGGCT ATTTATGAAT TCATTCATAA    60
CTTTGTGGAA GTTTTAGATG AGTATTTTCTAG CCGAGTGAGT GAATTAGATG TATCCTTTTT    120
CAATACTGTT TTCCACAGTA CTTGGCAAAT GCACTCTGGT CCTTATCAGG TAAGTACCAC    180
AAGGCAGGAA AACTATTCAG CAGAGTCCAG AGTGTTCATC ACCAACAACAT ATGACAAGAC    240
AGCCAGAGGT GTGTGTGTTC TGCAGAACTC CTCCCCAACT TCGTCACCCA AGCTCGAG    298
```

(2) INFORMATION FOR SEQ ID NO:1238:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 303 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1238:

```
CTCGAGTGGG GGGAGGGAGG GGGAGGAGAG AAGGGGAGGT GGATGGGGGA GGGGGACAGT    60
GGAGGAAGAG GGAAGAGGGA GAAAATAAGG AGAAAGAGAA GGAAAGGCAG AAGGGGAGGG    120
GAAGGGGGAA GGGGAAGAAC AAGGGGAATG GGAAGAGAAT GAAGAGGAAG AGAAGAGGAA    180
GAGTAGGAGG AGAAATAACA AAAGGCACCA GGTTGGAAAG GAAGAATTTA AAATATATTT    240
ATTTGCAAAC GACATTATCC TATAGTGAAG AATCCTTAAA AGTTAGGCCA TGAAGCCGAA    300
TTC                                     303
```

(2) INFORMATION FOR SEQ ID NO:1239:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 315 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1239:

```
GAATTCGGCT TCATGGCCTA CTCTTCTCTG AGACAGAAAA CTAGCGAACC CCAGGGGAAG    60
GTGCCGTGTG GAGAGCACTT TCGGATTCGG CAGAATCTAC CAGAGCACAC CCAAGGCTGG    120
CTTGGGAGCA AATGGCTCTG GCTTCTTTTT GTTGTGTGTC CGTTTGTGAT ACTGCAGTGT    180
CAAAGAGACA GTGAGAAGAA TAAGGAGCAG AGTCCTCCTG GCCTTCGAGG CGGCCAATT    240
CACTCTCCAT TAAAGAAAAA AAGAAATGCT TCCCCAACA AAGACTGTGC ATTCAATACC    300
TTAATGGAAC TCGAG                                     315
```

(2) INFORMATION FOR SEQ ID NO:1240:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 553 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear



(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1240:

```

GAATTCGGCC TTCATGGCCT AAAATGACCT TGGTAAGAAT GGGTTTTTAC AATAAATGAA      60
TTTTTAATTC CAAGATGTTT TTTCATTGAA ATTACTGCCC CAGTTGCATT AAAAGTGTGG      120
CTGTGCAAAG CTCCTTCTA CCAGGCTTCA TGTGCAGGAC CTGGGTTTTT GTTGCCTTGG      180
CAATTCCAAA AGCAGGTGTT GAAAGAGAAG AAGACAGGAA AAAGAAGATG GGAGAAAAAT      240
TTTCCAAATC AGAGTTCTCA GTCCAAGGAC TTATTCTTGG GGGTCAAAA ATTCTAACAG      300
TATTTTAAAT TTGCCTCTAT TTCGATGGTT ACTTGATTAA ACTGTTCTAA CATTCTAATA      360
AATAAAATTT TGCAATGATA ACTTTTATAT CAGACTTAC CTCTGTTTCC CAAATTGGAA      420
TCTTTAGGAA TATTTTGTG AGATCACTTT TTTCCTTTT TTCTTTAACA AAGATTGGGA      480
ACCGCTCTTA GGAACAGACA AATGGATTTC CATATTCTT AAAGCGTTGA AGTAAATCTC      540
TGCCACCCTC GAG

```

(2) INFORMATION FOR SEQ ID NO:1241:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 437 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1241:

```

GAATTCGGCC TTCATGGCCT ACTCTTCTCA AGGCTTTGAA ATCTCCCTT GCACTGAGAT      60
TAGTCGTCAG ATCTCTCCCC GTCTCCCTCC CAACTTATAC GACCTGATTT CCTTAGGACG      120
GAACCGCAGG CACCTGCGCC GGGCGTCTTA CTCCCGCTGC TTGTCTGTG CCCTCCCTCG      180
GACCAAAACAG TGCTCATGCT TCAGGACCTT GTTTGTCGAA GATGTTGGTT TCCCTTTCTC      240
TGTTATTTAT ATAAAAATAA TTTATCAAAA GGATATTTTA AAAAAGCTAG TCTGTCTTGA      300
AACTTGTTTA CCTTAAATTT ATCAGAATCT CAGTGTTTGA AAGTACTGAA GCACAAACAT      360
ATATCATCTC TGTACCATTG TGTACTAAAG CACTTGAGTC TAATAAATAA AGAAATCAGC      420
ACCCCTAGGC CATGAAG

```

(2) INFORMATION FOR SEQ ID NO:1242:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 523 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1242:

```

GAATTCGGCC TTCATGGCCT ACAAATATAT GTCTTTTGAA AACCNAGTCA AGTACCTAGA      60
GATGAAACC ACAAATGAGA AACTGTTACA GGAATTAGAT AACTTCAAC AACAAATGGA      120
TTCACAGAAC ATGAAAAAAG AGAGCCTGGA AGCAGAAATA GCTCACTCCC AGGTGAAACA      180
GGAGGCGGTA TTGCTGCATG AAAAAGCTTA TGAGTTGGAG TCCCATCGAG ATCAAATGAT      240
TGCAGAAGAC AAAAGCATAG GATCTCCAAT GGAAGAGAGA GAGAAATTAC TTAAGCAGAT      300
TAAAGATGAT AATCAGGAAA TAGCCAGCAT GGAAGACAG TTAACAGATA CAAAAGAAAA      360
GATAAATCAG TTTATTGAAG AAATTAGACA ACTTGACATG GATTAGAGG AACACCAAGG      420
TGAAATGAAC CAGAAATACA AGGAGCTAAA GAAAAGGGAG GAACATATGG AACTTTTAT      480
TGAGACTTTT GAGGAAACAA AGAATCAGGA ACCAAAACCTC GAG

```

(2) INFORMATION FOR SEQ ID NO:1243:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 352 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1243:

GAATTCGGCC	TTCATGGCCT	AACTGATTAC	AGGGAAAGAC	AAAAAGCAAA	AGGTGATTGA	60
AACATAGTTC	TAAATAACAA	GAAGGGAAGT	TTCTTTAAAC	TGATCATCTG	TCTTATTGTC	120
ATGACAAAGG	GTAAAATTTT	ATTTTCAGTC	CTTTAGTGCT	TTTTAATAAT	TCACCATACA	180
TATTTTACTT	ATATCCCATT	AACTGTGGGA	CTTAGCACAG	TTTACATTTT	CAGTCATGTG	240
AATATAATTA	TCTGTATTCC	CTGTTGGACT	GATGGGGGAA	ATTGGATCAT	TATATAATTT	300
AAAAGACACC	TCCCCAGGCA	CCCATGTGT	TCTTAGGAAG	TCAGTGCTCG	AG	352

(2) INFORMATION FOR SEQ ID NO:1244:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 306 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1244:

GAATTCGGCT	TCATGGCCTA	ATTCAGCTTT	ATCGTTCCCT	CTGGCAGTTC	AGTTGTTGGC	60
CCAGATTAT	TAAGGTTCGA	CAGAAAGCAA	CTGAAATCTC	CCTTAGAAAT	AAAGTTCCTG	120
GTGTGAAGAA	AAAAAAGATC	CATAAAAGT	CTCATCCTTA	GGACAGCAAC	TTTTATAATG	180
CACAGCTGAT	CTGAATAGCT	CTCTGGATTG	TGGCCTTGGA	CAACAGTTCA	GACTGCATTA	240
TTGAGTATGA	ACCTTGAGCT	TTCTGAGTCT	CTTCTTTTTC	CTCTTTTACT	AGCAGACCCCT	300
CTCGAG						306

(2) INFORMATION FOR SEQ ID NO:1245:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 591 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1245:

GAATTCGGCC	TTCATGGCCT	AGGGTTTGGG	GGTCTGAGA	TGTTACTCTC	ACTGAAGTCT	60
GTGTGGGAGG	CGGATTACTA	AACAAGAAAT	TGCTAATTAA	TCTCCAGATG	GCAAGGAATG	120
GATAAAGCAC	TGTTCCCAAC	AAGGTCCAAA	TGTCTCCGCT	GGAAGAGTGT	ACAATGGATG	180
CAGTTGGTCT	TCCTGCTGGC	AACAGTACCA	CCGAAGCGCT	TGGGGCAAGT	TCCAATCCA	240
GTAAGTCTCT	TTTATAATCT	TCTTTGGTAA	ATTCCCTCCT	GGGAAACATG	GTTGCTAACG	300
AAAAATTACC	GTAAGTGTG	CCAACAGTCT	GTGCAGCAAA	CTGCCTTGCC	TCTTCTAGAG	360
GAGCATCAGA	AGGGAACTGA	TTGTAAAGG	AAGAACCATC	AGGAAGACGG	AATTGAATTC	420
TTGCAACAGT	GCTTCTTTCT	CTTGCAATAG	ATTCCCTCTT	GACTTCCATT	TCTGCCTGTT	480
TTGCTAGCAA	GGCAGCAGCT	TTGGCAGCCT	CTACTTCTTC	CTTTGTCTTT	GCAAAACGAG	540
CAGCTCTCTC	TGCACGGTCC	AATGCAATCT	GCTGTTTTAT	ACGTTCTCGA	G	591

## (2) INFORMATION FOR SEQ ID NO:1246:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 593 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1246:

```

GAATTCGGCC TTCATGGCCT ACTTCGGGGA AGAAACCTTC ACCAGAGTGG AGCAGTTCAG      60
ACCATGGAAC CTCTGATCCA AGCAGCCAG CTCCTGCAAT TAAAGAAGAA AACCCAGGAG      120
GACGCAGAGG CTATCTGCTC CCTGTGTACC TCCTCAGCA CCCAGCAGAT TGTCAAAATT      180
TTAAACCTTT ATACTCCCCT GAATGAATTT GAAGAACGGG TAACAGTGGC CTTTATACGA      240
ACAATCCAGG CACAACATA AGAGCGGAAT GACCCTCAGC AACTGCTATT AGATGCCAAG      300
CACATGTTTC CTGTTTGTG TCCATTTAAT CCATCTTCTC TAACCATGGA CTCAATCCAC      360
ATCCCAGCGT GTCTCAATCT GGAATTCCTC AATGAAGTCT GAAGATGCAT GTTCCAGCA      420
TTAGTTTGAT TCCCAATGTG AGCAAGAAGG AAGTATATAC AGTAAAGTAA ATTCAAGGAT      480
CTGTTAAATC TGGTAAAAGT AGATCAAATC AGAGATTGAC AGCCTGTGGA GGGTGTGAA      540
CTATACAGAA TTAGACACAA CTATGTCATT ATTTTGTGTA CCAACTACTC GAG          593

```

## (2) INFORMATION FOR SEQ ID NO:1247:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 599 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1247:

```

GAATTCGGCC AAAGAGGCCT AAACACAGAA TGGTGCTACT TGAAGACTCT GGATCTGCTG      60
ACTTCAGAAG ACATTTTGTG AACCTGAGTC CCTTCACCAT TACTGTGGTC TTAATTCTCA      120
GTGCCTGTTT TGTCACCAAGT TCTCTTGAG GAACAGACAA GGAGCTGAGG CTAGTGGATG      180
GTGAAAACAA GTGTAGCGGG AGAGTGAAG TGAAAGTCCA NGAGGAGTGG GGAACGGTGT      240
GTAATAATGG CTGGAGCATG GAAGCGGTCT CTGTGATTG TAACCAGCTG GGATGTCCAA      300
CTGCTATCAA AGCCCCTGGA TGGGCTAATT CCAGTGCAGG TTCTGGACGC ATTTGGATGG      360
ATCATGTTTC TTGTCGTGGG AATGAGTCAG CTCTTTGGGA TTGCAAACAT GATGGATGGG      420
GAAAGCATTG TTGCAATCAC AATGAAGATG CTGGCGTGAC ATGTTCTGAT GGATCAGATC      480
TGGAGCTAAG ACTTAGAGGT GGAGGCAGCC GCTGTGCTGG GACAGTTGAG GTGGAGATTC      540
AGAGACTGTT AGGGAAGGTG TGTGACAGAG GCTGGGGACT GAAAGAAGCT GAACTCGAG      599

```

## (2) INFORMATION FOR SEQ ID NO:1248:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 418 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1248:

```

GAATTCGGCC AAAGAGGCCT AACCGAATGG ATTATCTGTG GGAGTAACAT CTCAGAAGAC      60

```

TATGAAGCTA	ATTCCTGCCT	CAAGACACAG	AGCTACACAA	AAGGTGGTTA	TTGGAGATCA	120
TGATGGGGTA	GTTATGTGCT	TTGGCATGAA	GAAAGGAGAA	GCAGCAGCAG	TGTTCAAGAC	180
TTTACCCGGG	CCGAAGATTG	CAAGGCTGGA	ACTGGGAGGG	GTTATCAACA	CACCTCAGGA	240
GAAAATTTT	ATTGCTGCAG	CATCTGAGAT	TAGAGGCTTC	ACAAAAAGAG	GAAAACAGTT	300
CCTCTCCTTT	GAAACAAACC	TCAGTAAAAG	CATTAAAGCT	ATGTATGTCT	TTTGTCTCT	360
TTTGTATTTT	TACATACTTA	TTTATAATAT	TTTGGATAGA	TGTGAGGCAA	CCCTCGAG	418

## (2) INFORMATION FOR SEQ ID NO:1249:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 800 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1249:

GAATTCGGCC	AAAGAGGCCT	AGCAGAGCAC	AGCATCGTCG	GGACCAGACT	CGTCTCAGGC	60
CAGTTGCAGC	CTTCTCAGCC	AAACGCCGAC	CAAGGAAAAC	TCAGTACCAT	GAGAATTGCA	120
GTGATTTGCT	TTTGCTCCT	AGGCATCACC	TGTGCCATAC	CAGTTAAACA	GGCTGATTCT	180
GGAAGTTCTG	AGGAAAAGCA	GCTTTACAAC	AAATACCCAG	ATGCTGTGGC	CACATGGCTA	240
AACCCTGACC	CTTCTCAGAA	GCAGAATCTC	CTAGCCCCAC	AGACCCTTCC	AAGTAAGTCC	300
AACGAAAGCC	ATGACCACAT	GGATGATATG	GATGATGAAG	ATGATGATGA	CCATGTGGAC	360
AGCCAGGACT	CCATTGACTC	GAACGACTCT	GATGATGTAG	ATGACACTGA	TGATCTCACC	420
AGTCTGATGA	GTCTCACCAT	TCTGATGAAT	CTGATGAACT	GGTCACTGAT	TTTCCCACGG	480
ACCTGCCAGC	AACCGAAGTT	TTCCTCCAG	TTGTCCCCAC	AGTAGACACA	TATGATGGCC	540
GAGGTGATAG	TGTGGTTTAT	GGACTGAGGT	CAAAATCTAA	GAAGTTTCGC	AGACCTGACA	600
TCCAGTACCC	TGATGCTACA	GACGAGGACA	TCACCTCACA	CATGGAAAGC	GAGGAGTTGA	660
ATGGTGCCATA	CAAGGCCATC	CCCGTTGCC	AGGACCTGAA	CGCGCCTTCT	GATTGGGACA	720
GCCGTGGGAA	GGACAGTTAT	GAAACGAGTC	AGCTGGATGA	CCAGAGTGCT	GAAACCCACA	780
GCCACAAGCA	GTACCTCGAG					800

## (2) INFORMATION FOR SEQ ID NO:1250:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 347 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1250:

CAATTGCCAA	GGAAACAGGC	CTTGGCCTGA	AGGTACTAGG	AGGAATTAAC	CGGAATGAAG	60
GCCCATTTGGT	ATATATTCAG	GAAATTATTC	CTGGAGGAGA	CTGTTATAAG	GATGGTCGTT	120
TGAAGCCAGG	AGATCAACTT	GTCTCAGTCA	ACAAGGAATC	TATGATTGGT	GTATCATTTG	180
AAGAAGCAAA	AAGCATAATT	ACCGGAGCCA	AGTTGAGTAC	TAGGTTAGAA	TCTGCTTGGG	240
AGATAGCATT	CATAAGACAA	AAATCCGACA	ACATTAGGCC	AGAAAATCTG	TCATGTACAT	300
CACTTATAGA	AGCTTCAGGA	GAATATGGAC	CTCAAGCCTC	CCTCGAG		347

## (2) INFORMATION FOR SEQ ID NO:1251:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 301 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1251:

GAATTCGGCC	TTCATGGCCT	ACAGCCCTCT	TACTAGGCCA	GCACGCTTTC	GCTTTTGCAT	60
TTACAATCAC	ATACCCCATC	CCCTCCACTT	GAAAAAGAAT	TTTGTTTTTG	TCGTTATCCA	120
AAAATCTCAT	CTTAAATCAA	CCGTCTCGTC	TCCCTGTAGC	TTCATTACCA	TCACAGAAGC	180
AGCAAAGGAG	CCAGCAAAAG	CTAAGGTACA	GAAAGTCGCT	TTGGAGGATG	ATGGTGAGTG	240
GTTATACTTA	ATAGAAGCTA	TCATTTATTA	AGCACCTAAT	GTGTGTCTGG	AGGGGCTCGA	300
G						301

(2) INFORMATION FOR SEQ ID NO:1252:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 392 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1252:

GAATTCGGCC	TTCATGGCCT	TGCATGCCCA	CAGTGAGCTG	AGATCGCAGC	ACTGTACTCC	60
ATCCTGGGGG	ACAGAGCTAG	ACTCCATCTC	AAAAACGAAA	GTGCCTGGTC	GTCTTTCCAC	120
ACGACTCCGT	TTCCACTCCC	ATAAAATGCT	ACGTTAGCTG	TTTTGAGGGT	AGATGCCCTT	180
AGACTGCCAA	CTCACAAGT	TTTATTGGGC	ACCTGTTACC	TGTTTCAGCAG	AGATTTGTAA	240
AAAAAGACAC	ATCAGGTGGC	CTTTGCTTGC	AAGAAATCAG	CCTTTGGAAC	CTGTGGAGAA	300
AAGTTAAATA	CTGCCGTACTG	TGCAAATGAA	GGGTGGGAGC	TATTGAAGGG	AAGAGATTCA	360
CCCTGAAAAC	CCAAGAATGG	CCAAATCTCG	AG			392

(2) INFORMATION FOR SEQ ID NO:1253:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 610 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1253:

GATTCGGCCT	TCATGGCCTA	GCTGGTCTCT	GGTTGCAGGA	TCGAATCGCC	CCCAGCAGTA	60
TGTGTATATG	CATCAGATAA	GGTGAGGGAC	AACCTTCCTC	ACCCCATAC	CTGGCCAGCC	120
TGTAATGGGG	AGGAGGCCTT	TCTGTGGTGT	GGTGGGGCTG	GAGATTGGGC	AGGGACAGAG	180
ACATACCTTC	TCTGGGAATC	TGAGAGAGAT	ACCTTGAATC	TAGGGGAAAG	GGATTAGGTT	240
TTGAAAATGT	TAGCCATTTT	GTAAAGAGAA	GTCCCTCACC	ATTTCCCTTC	CCATTAGTCC	300
TGGGAAATAG	ATTGGGTAGA	GGCTCAGAGC	CTGGCCCCTG	CTGCACTCCC	AGCTTGGAGC	360
TACTGGGTG	TTGACAATGT	TTTGGGGTTT	CCAGGCCTTA	GCAAGAGAAA	GCCTCCCCAG	420
ATACCACTCT	AGGGGTAGAT	GAAGGGGGCA	GGAGCCCTGA	AGGAAGGATT	TGGGGCCGGC	480
CATTCAATCA	TTCAGAAACA	CTTATCATCC	CTTATCAGAA	GCCCTGACCT	ATTGAGAGTC	540
AGGCACGTGC	TATTGAGAGT	CAGGCACGTG	CTCATATAAA	GATGAGTTTA	ACATGGATCT	600
CCCTCTCGAG						610

(2) INFORMATION FOR SEQ ID NO:1254:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 328 base pairs

(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1254:

GAATTCGGCC	TTCATGGCCT	AGAGGATTTA	CACATGGCAT	TCAGTGTTC	GTATAGATCT	60
GCCTACCTTT	GTGAATTCAT	CTGTTAACCC	CTCTTCCTTT	GAGAGAGCAC	CGGCGATGGT	120
GGTTAACTCC	TGTGTTTTCT	CTCTCTCCTA	CTGGTTATTC	TTGAATTAAG	CACAGACTCG	180
TCAGCTCGGT	TGCTTTATCA	TGAATAATGT	GTGTGACCTT	GCAGTTCCTC	CACAGTTCAG	240
CAAACAAGTG	CTAGCTTCAC	TGACCAAAAA	TTAAGGAAGG	AAAACACAGT	TTTTAAACG	300
ATCCATCTTT	TAAACAGCCG	AACTCGAG				328

(2) INFORMATION FOR SEQ ID NO:1255:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 488 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1255:

GAATTCGGCC	TTCATGGCCT	ACTAAGAGAA	CAATTAGAAT	ATTGGAAGAT	AAAGGGACAA	60
GTAATGAATT	AGTTAAAGAA	AATCAGAAAC	TTAAGCAGCA	TTTGAAGAG	GAAAAGCAGA	120
AAAAACACAG	CTGTCTTAGT	CAAAGGGAGA	CTCTGTTGAC	AGAAGCAAAG	ATGCTAAAGA	180
GAGAACTGGA	GAGAGAACGA	CTAGTAACCT	CGGCTTTAAG	GGGGGAAGTC	CAGCAGTTAA	240
GTGGTAGTCA	GTTACATGGC	AAGTCAGATT	CTCCCAATGT	ATATACTGAA	AAAAAGGAAA	300
TAGCAATCTT	ACGGGAAAGA	CTCACTGAGC	TGGAACGGAA	GCTAACCTTC	GAACAGCAGC	360
GTTCTGATTT	GTGGGAAAGA	TTGTATGTTG	AGGCAAAAGA	TCAAATGGA	AAACAAGGAA	420
CAGATGGAAA	AAAGAAAGGG	GGCAGAGGAA	GCCACAGGGC	TAAAAATAAG	TCAAAGGAAA	480
CACTCGAG						488

(2) INFORMATION FOR SEQ ID NO:1256:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 316 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1256:

GAATTCGGCC	TTCATGGCCT	AGATCCAGAC	ACGGCACTGC	AGCTTTCAGC	TGACTAGCTG	60
TGTGACTTGG	GCAAGCCCCT	TAATCTCTCT	GATCTCGGGC	TCCCTCCTCT	GTAAAATGGA	120
ATTAAGAATA	ACCTCATTGA	GGAGCTTCCT	GAGGAGGTAA	GGAAAGTGCC	TGGCACAGTG	180
CCAGGCTGCT	AAGAGATCAA	TAAATGTCCC	ATCCCCCAGC	CCCACCCAG	TTCTTTCCAG	240
GAATTTGAGA	GACTCCTCCC	CCTGTGTTTG	AAAGTGGCAA	AGTCTGGCAC	ACTTGCCTCA	300
TAAACATAAA	CTCGAG					316

(2) INFORMATION FOR SEQ ID NO:1257:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 346 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1257:

GAATTCGGCC	TTCATGCCTA	AGCTTCCTTC	AGCAGCGCAG	GCGGTGGTCC	CTGAGGCCCG	60
TGGAAGGAGT	CAAACCTGCG	GGAATTTGTC	AGTTTATCTG	CAGGGCTGTT	GTTTCCAGCA	120
AGACCCAAAG	CTAGAAAAGG	AGGAGGAAGA	AACTGACCCG	ATCAGTGCCA	GAAGTCATTG	180
TATTCAAAGA	AGAATAAGCA	AGAAAGAAAA	GAAGGAAGGA	AGAGAGGTAG	ACAGATACAA	240
GATGAAATCC	TGTCAAAAAA	TGGAAGGAAA	ACCAGAAAAT	GAGAGTGAAC	CAAAGCATGA	300
GGAAGAGCCA	AAGCCTGAGG	AAAAGCCAGA	AGAGGAGGAG	CTCGAG		346

(2) INFORMATION FOR SEQ ID NO:1258:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 346 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1258:

GAATTCGGCC	TTCATGGCCT	ACGGCACTTC	AAAAATATAA	ATCAAAGTCC	ATGACTCTAA	60
AAATAACATA	TGCATTGATA	TGCTCGCCCC	TTTGACCCTT	CTCTCAAGAG	AAATTCCCTG	120
CCAAGTAATC	CACATACATA	AGAAGTGTA	AAAGTCCCTA	GATTAAAAGA	GCATAAAACT	180
TCATTATGGA	AACACAGTAG	TCCC GGCTAT	TTGGGAGGCT	GAGACAGGAG	GATCACGAGT	240
CCAGGAGTTT	GAGGCTACAG	TGAGCTATGA	TCGCGCCATT	GCACTCCAGC	CTGGATGACA	300
GAGGAAATAT	TAATTTTAGA	GTAATCAGAG	AAAGCCAGGT	CTCGAG		346

(2) INFORMATION FOR SEQ ID NO:1259:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 341 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1259:

GAATTCGGCC	TTCATGGCCT	ACCCCATTC	TGCAGGAATA	AATCAAGTGA	GCAGTTCAG	60
ACTTTTGAT	AATATTTT	CTATGATGCT	GTTTATTAA	TATTTTCTAA	ATTTCAAAC	120
AAAAAGTGAA	TGTTTGAAAT	TGCTGGGTCC	CGATGTTGGT	GGCTGTTGGA	GTTTGGACC	180
ACTCGCTAGC	AGTGATTGA	AGATTATAAT	TAGCTAAAAT	CCAAAACAAA	AAACCAACAA	240
CAAAAATTGT	ATGGTGCGGA	ACATGCACCT	TGACAATGGT	ACTAACTTGT	TATTCTATAG	300
AACACGTTAG	AATAGATCTA	TTTTTGCCAG	AGCTTCTCGA	G		341

(2) INFORMATION FOR SEQ ID NO:1260:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 416 base pairs
  - (B) TYPE: nucleic acid

(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1260:

```
GAATTCGGCC TTCATGGCCT AAAGATAAGG TGGCTGTAAA TGCCTGGATT TATACCTGAG      60
TTCTCTCATC TGTTTCACTG ATCCATGTGT CTGTTTTTAT GCCAGTACCA TGCTGTTTGG      120
ATNACTATAG CTTTGTAAATA AATTTTGAAG TCAGGTAGTG TGATNCCTCC AGCTTCATTC      180
TTTTTGCTCA GGATNGCTTT GGNTATTCAT AGTCTTGTGG TTCCATGTAA ATTTTAGGTT      240
TTTTTTTTTT TTTTTTTTTT TTTTACTAT TTCTGTGAAG AATGTTATTG GTATTTTGAT      300
AAGGATTGTA TTGAATCTGT AAATTGCTTT GGGTAGTCTT GTCATTTAAA AATATTGTTA      360
TAGTTCCTCT AATCCATGAA CATAGAATAC CTTTCATT TTTGGTGTG CTCGAG      416
```

(2) INFORMATION FOR SEQ ID NO:1261:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 86 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1261:

```
GAATTCGGCC AAAGAGGCCT AGGCAGACAT CCATAAACAT TTTCAAAATG CAGGGTATGT      60
TTTTCAGTGT TAAGGCAACT GTTCTG      86
```

(2) INFORMATION FOR SEQ ID NO:1262:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 332 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1262:

```
GAATTCGGCC AAAGAGGCCT ACTTTTGGTA ATAACATTTT AAAGCAGGAA GTATCTACGG      60
TGTGATCGTG GTACAGCTCT TAGTTCAAGT GTGAAGACAT TTGGTTGTCT TGTATATGAC      120
CTAGAAGAAG GGGCGTCTGC TGGAAAACAA TGCTGTTCTT TTTCTCTTGG TTTTGGGA      180
CGGGGTCTTA CTCTGTTGCC CAGGCTGCAG TGCACTGCCT CAATTTTCA GTTCAGTGCA      240
GCCTCGACCT CTGGGGCTTA AGCGATCCTC TGCCTCGGC CTCCCCAGTG ACTGAGACCG      300
CAGGCACACA CCACCACACC CGGCACCTCG AG      332
```

(2) INFORMATION FOR SEQ ID NO:1263:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 279 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA



## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1263:

GAATTCGGCC	AAAGAGGCCT	AAGCCAGGGT	AGGGACAGCA	GAATGAGTGAC	60
AGTTCTATGC	AAATGGAGTT	ATTATTATTA	TTGTTATTAT	TAATAAGGGC	120
CAGAACTGCC	CAGTATGGCC	TGTGACTTCT	GCGCAGCAAT	TATTTCTCCA	180
CTGAAGCTAC	CTCACAGTGA	TGCAAAAAAA	TGGGATTCCC	CACTAACCCC	240
CCCTTCCTAC	CAAACCACAC	ATCTCTCAGT	CCTCTCGAG		279

## (2) INFORMATION FOR SEQ ID NO:1264:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 629 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1264:

GAATTCGGCC	AAAGAGGCCT	AGGATCACGG	AGGTGGTGCC	TGTGTGTCCC	ACAGGAAGCA	60
AAAGCTGATG	CCCAGTTCCC	AGCATACCTA	AGTAACTTC	AGGTCCACTC	CCAGCACGTT	120
TCTCGTGATA	GTAAACTAT	GAAGGAATC	AGTGTACAAG	GAGCTTCTAC	AAAATAGGCA	180
GAAGACAGTA	GCCAGATGGG	CCAAGGGCCC	CAGCCACCCA	CGCCCCCTCC	TCTCCTTGAA	240
GACCTTCGGT	TCCAACCCCA	CCATCAGCAG	GGCTCTGCTC	AGTTCCTCCT	TATGTGTATC	300
ACCACAGGGC	TGCTGGCTCG	TGTCACGTC	ACCACCAGAC	CCCACATCAG	GAGTCCCGCC	360
AGGGGTGTGG	GGAGGCAGCG	CTGCCTGGTT	GGCCGTGGAG	CCGTATGGAA	CATGGTGCCT	420
CACAGGCAGT	CTGCTTGCG	TCCTGGATCC	TGGCTGTATC	CCGCTGGAAA	GGATGTGTGT	480
GGGTCTAAGA	TATGTATATA	ATAGAAACAT	TTATTCAGAA	GCTTTAGTCA	AGACTTCATT	540
TTTAAGTTCA	GAGTAATAAA	CTCATAGTCT	AAATTCCTA	ATTTTCTGT	TTAATTTACA	600
TAAATAAAAT	GAAATGCAAT	TTCCTCGAG				629

## (2) INFORMATION FOR SEQ ID NO:1265:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 426 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1265:

GAATTCGGCC	AAAGAGGCCT	AGAGGTGCCC	ATTTCAATAA	ATTTTAGCAC	ACTGGATGAT	60
AAAGGAGAAA	TGCTTTGGTT	TAAGAGAGGG	AAATCTTGT	TACCAATACT	ATCGGTGAGT	120
TCACCTAATA	CTTCCTCGTC	ATCAAGTTCA	TTGGAGTACG	CATCTTCTTC	ATCCTCATCT	180
CCCGGTTTCA	TGGGTTCACT	TTTGACAGGG	CACTCCCCGT	TTGGGTGTAA	AACGTTGCTT	240
TCTTTTGCC	TTTACAGTT	GTTCTCTTG	TCTTTGCTCT	CTGACATCTT	GCTAGACTCA	300
GACGATGAGT	GGCTGAGGGA	GACAGAGGTA	ATTGGGGTGT	TCACTACTAA	ACTAGACAGC	360
CCCCCAGAT	TCACTTCAGC	CTTTGGCATT	TGGGTAATCC	CCAGCGGCTG	CTCTGCTGAG	420
CTCGAG						426

## (2) INFORMATION FOR SEQ ID NO:1266:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 450 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1266:

```

GAATTCGGCC AAAGAGGCCT ACCGCCCATC GCGCCGGCGC GACCCGCAGG AGCGTAGAGA      60
GCGCGGGACT AGAGTGCAGA GCTCCGGGAC GTGGATCGGA GCCGGCGCGA TGGGCGGAGA      120
GCAGGAGGAG GAGCGGTTTC ACGGCATGTT GCTGGCCATG GCTCAGCAGC ACGAGGGCGG      180
CGTGCAGGAG CTTGTGAACA CCTTCTTCAG CTTCTTCGA CGCAAAACAG ACTTTTTCAT      240
TGGAGGAGAA GAAGGGATGG CAGAGAAGCT TATCACACAG ACTTTCAGCC ACCACAATCA      300
GCTGGCACAG AAGACCCGGC GGGAGAAGAG AGCCCGGCAG GAGGCCGAGC GGCGGGAGAA      360
GGCGGAGCGG GCGGCCAGAC TGGCCAAGGA AGCCAAGTCA GAGACCTCAG GGCCCCAGAT      420
CAAGGAGCTA ACTGATGGAG AAGACTCGAG

```

(2) INFORMATION FOR SEQ ID NO:1267:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 459 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1267:

```

GAATTCGGCC AAAGAGGCCT AGCTACTAAG GCAGGTGCAG CATCAATGAT TCACTACATG      60
GTTCTGATAT CAGCTCGCTT GGTACTACTC ACTTTGTGTG GATGGGTACT TTGTTGGACC      120
CTCGTCAATC TCTTTCGAAG CCATTCAGTC CTCAATCTCC TTTTCCTTGG CTACCCGTTT      180
GGTGTTTATG TTCCTCTTTG CTGTTTTTCAT CAAGATAGTA GAGCACATCT TCTTCTCACA      240
GACTACAACT ATGTGGTTCA GCACGAGGCA GTAGAGGAAA GTGCCTCGAC TGTGGGAGGC      300
TTGGCCAAAT CCAAAGACTT TCTCTCCTTG TTGCTGGAGT CGCTAAAGA ACAGTTTAAAT      360
AATGCCACAC CCATCCCCAC CCACAGTTGT CCCCTATCTC CAGACCTCAT TCGCAATGAA      420
GTAGAATGTC TGAAAGCAGA TTCAACCAC CAACTCGAG

```

(2) INFORMATION FOR SEQ ID NO:1268:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 432 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1268:

```

GAATTCGGCC AAAGAGGCCT AGAGTTTCA TAAGCCCGGC TGGTGTTTAA AACGTGTTTT      60
GGCTTTGTTT ATTTTATGGT GTTGGTGTTG GTATTGGTGG TCATGTACTG GCATGTAAGA      120
TTTCTTTTCT CTTTCCCTCT TCTCTCTGCT TCTACATTCT GTTCATTGAG GCTTCCAAC      180
GAATATGAGA GGAACGGGAG ATATGAGGGC TCAAGTCGCA ATGTATCTGC TGAGCAAAAA      240
GATGAAAACA AAGAAGCAAA GCCTCGATCC CTACGCTTCA CCTGGAGCAT GAAAACCACT      300
AGTTCAATGG ATCCCGGGGA CATGATCGCG GAAATCCGCA AAGTGTGGA CGCCAATAAC      360
TGCGACTATG AGCAGAGGGA GCGCTTCTTG CTCTTCTGCG TCCACGGAGA TGGGCACGCT      420
GGTAACCTCG AG

```

(2) INFORMATION FOR SEQ ID NO:1269:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 510 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1269:

```
GAATTCGGCC AAAGAGGCCT ACCCTGAACT ACTCCAGTGT GCACCTGCAC AACCTCCATG      60
GTGCCTCTGG AATTGGGTAG CATGGTGGCC CTGCTGATGA GCACCCCAAG GGGCCATTGG      120
GGGACCTCTG AGAATCTCTG CCAGAGCAGT TTGGGTGGGA GTCGATTAAG GAAAGAAGCA      180
GCAAGATCCA GGACTTTTAA TCTTAAAAGA GAGAGAAATG CTGGCAGATG AACATTCTGA      240
GGATAAGGAG CCTGAGTAAT TGAGCGATTA GGGATGGAGA CATACGATTG AATTCTAGAC      300
CTGCCTCGAG TAGCCAATCA AGCTGTGTCT GGCTGTGCAC TATCCAGGCC TCCACATTCT      360
GTGACAAACT AACAGGGCCG GCTCCTGTCA CTCCTGTCT CGCCAGCGGG TTTTACCCTG      420
AAGGTGACTC AGGCCTTCTC TTTGCCCTAG ATCGTGGGGA TCATCACACG GCACAACCTC      480
ACCTATGAAT TTCTGCAGGC GTAGCTCGAG                                     510
```

(2) INFORMATION FOR SEQ ID NO:1270:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 388 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1270:

```
GAATTCGGCC AAAGAGGCCT ACGCATCCCC TGCAGCTCTT GCCCCCAGAC GTTTGGTACC      60
AACTCGAAAC TGCCTTGCA CCGGTTAAGG GTACATGACA AAACACCTAC CCACTTCTGT      120
CCACTTTGTG ACTATAGTGG CTACCTTCGC CATGACATCA CTCGTCATGT CAACAGCTGC      180
CACCAAGGCA CCCAGCCTT TGCCTGCTCC CAGTGTGAAG CCCAGTTCAG CTCAGAGACA      240
GCACTTAAGC AGCATGCTCT GCGCCGACAC CCCGAGCTG CACAGCCTGC CCCTGCTCT      300
CCTGCAGAGA CCACTGAGGG CCCCTGCAC TGTTCCCGCT GTGGGTTGCT GTGCCCCAGC      360
CCTGCCAGCT TACGAGGACG GCCTCGAG                                     388
```

(2) INFORMATION FOR SEQ ID NO:1271:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 407 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1271:

```
GAATTCGGCC AAAGAGGCCT ACAGAACTGT GCCATATTCT TAAACATCAT ACAATATTGC      60
CTTTCAGGCA TGAAAAGCAA AGGGAATTAT TTGTTTCAAT GATAGCGCTT TAGTAATGTA      120
AGTGGATACA CTTAGGGCTA GCCCTCTGGC TTGTTACCAT GGTAAAGCTAG GGGAAATATAG      180
TTGAGGGGTC TGCAGCAGAG CTTGGAGAGG ATCTGGGATG TTAAATTCTC AAGTACTTGA      240
ACTTAGCAAC AGGACTTGGT CCCATCCACA CCCTGCTCTC CACCCCAGCT GGAAATAATT      300
AGTGCTGACT ATGGAGGCAA AGAGAAACAT ACTTGTAAGC TTTTGTGTTT GGATTTTCTT      360
TGGGGTTTCC TTTTGTCTT TTCTGAACTG GAGGGTGAAA TCTCGAG                                     407
```

## (2) INFORMATION FOR SEQ ID NO:1272:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 321 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1272:

```

GAATTCGGCC AAAGAGGCCT ACATAAATCA AAAATTTCTG TGAAGATGGG AAATAAGGCC      60
AAGATTGCAA AATGTCCTTT AAGAACAAAA ACTGGGCACA TTCTAAAATC AACACAAGAT      120
ACTTGTATTG GGAGTGAAAA ACTTTTGCAA AAGAAGCCAG TTGGTTCAGA AACATCACAG      180
GCAAAAGGTG AAAAAAATGG AATGACTTTT TCATCCACTA AGGATTTATG TAAACAATGT      240
ATAGATAAAG ACTGTCTTCA TATCCAGAAA GAGATTTTCA CTGCAACCCC TAATATGCAG      300
AAGACTAGAA ACACCCTCGA G                                     321

```

## (2) INFORMATION FOR SEQ ID NO:1273:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 205 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1273:

```

GAATTCGGCC AAAGAGGCCT ACGAGAACTT CCTTTTCATC TGAATCTTCG TCAAACCTCTC      60
TCTCAGAGCC TTCCTCATCT AACACTTTTT CAGAGCCGTC ATCTTCAAAT TCGGAGTTTT      120
CAGAGTCATT TTCTTCTAAC TCTTTGTCAA GAACATTTTC ATGAAGCTCC TTTTCAGAAC      180
CTTCCTCGTC CAAATCTTTC TCGAG                                     205

```

## (2) INFORMATION FOR SEQ ID NO:1274:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 450 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1274:

```

GAATTCGGCC AAAGAGGCCT ACTCAATACT GAGGCTGATT GGTCGTTTAG GCCAATTGGG      60
TTTGAAAGAA GGATTTCCAT CTGCTGTGAA AAATATTAGT TCGGTATTG GTATGTTTAT      120
ACAGCATGCT CACGATGAAG ATATACCATG GGGTATACAG TTAGCAGCCG TGTATGCTCT      180
TTGTGACTTG AGTCCCAGCA ATCCAGCAGA AATTTCCAAG ATCCTGGAAG CTGGCGGAG      240
AGAGGCCTCC AAAAGCGTTC CGTCTGCGAT TGTCAGCTGC CTAGAGGAAG TCAGTGCCCT      300
GAGCACAGAG GAGCTTGGCT GACCTGGGAT GCCACTGAGG CTTGAGAAGT GCCTTGACAC      360
ATTTTGAACA CAAATAGTTT GATCAGCTTT CAGAATACAA AGGGAGGTTT CAAAACAAAA      420
AGACATAAAA TAGATAAAAG CAGACTCGAG                                     450

```

## (2) INFORMATION FOR SEQ ID NO:1275:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 255 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1275:

```
GAATTCGGCC AAAGAGGCCT AAAGCAACAG GAAAGGATAA ATTCACAGAG GGAAGAGATA    60
GAAAGACAAC GGAAATGTT AGCAAAGCGG AAACCTCCTG CCATGGGTCA GGCCCTCCT    120
GCAACCAATG AGCAGAAACA GCGGAAAAGC AAGACCAATG GAGCTGAAAA TGAAACGTTA    180
ACGTTAGCAG AATACCATGA ACAAGAAGAA ATCTTCAAAC TCAGATTAGG TCATCTTAAA    240
AAGGAGGCTC TCGAG                                         255
```

(2) INFORMATION FOR SEQ ID NO:1276:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 367 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1276:

```
GAATTCGGCC AAAGAGGCCT AACAAAGATTG ACCGTGAATG GTTCACTGTT GAAACTCTGT    60
GATGGGTACT TGAGAATTTA TTATATTATT ATGCCTATAT TGCAGATATT TGAAGTTTCC    120
CAATAAAATG TTTAAATAG TGGCAGGGGG CAAGAGAGAA AGGACCACTC AATTAAAGA    180
AAAAATAATT TTTAAAGACA CAGAGAATAG GAAGAGGGAA AAATTGGTGA GGCAAGAGAA    240
AGGCAGCAGG TGGGGCCATA TCAAGAGTGA TTCTTCAGCA GGTGAGGCGT GATACCACCG    300
CAAAGTAGA GGGTTGGCTG TAAGATAGGG GGCACAGATG GCTATAATGC AAGGGAAGGC    360
GCTCGAG                                         367
```

(2) INFORMATION FOR SEQ ID NO:1277:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 624 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1277:

```
GAATTCGGCC AAAGAGGCCT ACTCAGAAAC AAAGCCAAAA TTAAGTTCAT CATTAAAAAG    60
CCCGAAATGT TTGAGACGGC GATTAAGGAG AGCACCTCCT CTAAGAGCCC TCCCAGAAAA    120
ATAAATTCAT CACCCAATGT TAATACTACT GCATCAGGTG TTGAAGACCT TAACATCATT    180
CAGGTGACAA TTCCAGATGA TGATAATGAA AGACTCTCGA AAGTTGAAAA AGCTAGACAG    240
CTAAGAGAAC AAGTGAATGA CCTCTTTAGT CGGAAATTG GTGAAGCTAT TGGTATGGGT    300
TTTCCTGTGA AAGTTCCCTA CAGGAAAATC ACAATTAACC CTGGCTGTGT GGTAGTTGAT    360
GGCATGCCCC CGGGGGTGTC CTTCAAAGCC CCCAGCTACC TGGAAATCAG CTCCATGAGA    420
AGGATCTTAG ACTCTGCCGA GTTTATCAAA TTCACGGTCA TTAGACCATT TCCAGGACTT    480
GTGATTAATA ACCAGCTGGT TGATCAGAGT GAGTCAGAAG GCCCGTGAT ACAAGAATCA    540
GCTGAACCAA GCCAGTTGGA AGTTCCAGCC ACAGAAGAAA TAAAAGAGAC TGATGGAAGC    600
TCTCAGATCA AGCAGAACCT CGAG                                         624
```

## (2) INFORMATION FOR SEQ ID NO:1278:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 286 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1278:

```
GAATTCGGCC AAAGAGGCCT ACCCAAATCC CATTAGATA AATTGAGGTT CATTTTTCAC      60
ATAGACTTGC AATTTT TAGA CACCACATTT TTTTATAGT AACAGCCTCA TTTGCCTGTA      120
CAATAACTAA TAATACAGTA TTTCATAGGT ACATTGTATG TGCACAGGAA ATTTTCTTT      180
AAATCTTAAA AGCCTTTAAT AAACGGGATA TTTTAATATT TTAATGTTAC TACATTTAAA      240
AAATAGTGTT TTCCTACAAA ATTTTCTGTA TTCAGTAATA CTCGAG                      286
```

## (2) INFORMATION FOR SEQ ID NO:1279:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 227 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1279:

```
GAATTCGGCC AAAGAGGCCT ACTCATCATT AGCTGAAAGT TTGAGAGCTG CAGCAGAAGC      60
GGCTGTATCA CAGACTGGAT TTAGTTATGA TGAAAATACT GGACTGTATT TTGACCACAG      120
CACTGGTTTC TATTATGATT CTGAAAATCA ACTCTATTAT GATCCTTCCA CTGGAATTTA      180
TTACTATTGT GATGTGGAAA GTGGTCGTTA TCAGTTTCAT TCTCGAG                      227
```

## (2) INFORMATION FOR SEQ ID NO:1280:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 486 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1280:

```
GAATTCGGCC AAAGAGGCCT ACCCGTGC GC TCTACAAATA GTTCCGTGAG AAAGATGGCC      60
GGGAACTCGA TCCTGCTGGC TGCTGTCTCT ATTCTCTCGG CCTGTCAGCA AAGTTATTTT      120
GCTTTGCAAG TTGGAAGGC AAGATTAAAA TACAAAGTTA CGCCCCAGC AGTCACTGGG      180
TCACCAGAGT TTGAGAGAGT ATTTCCGGCA CAACAAACT GTGTGGAGTT TTATCCTATA      240
TTCATAATTA CATTGTGGAT GGCTGGGTGG TATTCAACC AAGTTTTTGC TACTTGTCTG      300
GGTCTGGTGT ACATATATGG CCGTCACCTA TACTTCTGGG GATATTCAGA AGCTGCTAAA      360
AAACGGATCA CCGTTTCCG ACTGAGTCTG GGGATTTTGG CCTTGTGAC CCTCCTAGGT      420
GCCCTGGGAA TTGCAACAG CTTTCTGGAT GAATATCTGG ACCTCAATAT TGCCAAGAAA      480
CTCGAG                      486
```

## (2) INFORMATION FOR SEQ ID NO:1281:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 430 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1281:

GAATTCGGCC	AAAGAGGCCT	AGACAAATTT	CCTTTCATTG	CTTCCAGCCG	TGTTATTTAA	60
AGTAATTAAC	CTTAATTTAT	AAATTTTAT	ATCAAAGTGC	CTTTTAACTT	TTAGAACTGG	120
CAGGAACAGC	CTTATCCCTG	GGCTCCTAAT	AGTTCCTCAT	TTAATCAAAA	TTCATCCATC	180
AGGTTCCAGT	GTTAAATCAT	CTTTTAATTG	GGAGTTACAT	TCTGGTTAAT	AGTTTATATA	240
TTGCCTCCT	CTAATAGTTT	TTACCACAGG	GATCTCGACT	CCATTTTTC	TGACTCTATT	300
ATTGCTGGCA	TGCGATTTCT	GCGGGGATGG	CTTAACGCGG	CCCTGCCTCT	CTGGCCTCTG	360
CTGGTCGCCT	CTTTTGTTC	TGGTGGTCTC	ATTAATTCCT	GAGAAGAGTT	ATCCTTCCTC	420
CTCACTCGAG						430

(2) INFORMATION FOR SEQ ID NO:1282:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 333 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1282:

GAATTCGGCC	AAAGAGGCCT	AATCCCCTTC	TGCATGTTCC	CTTCCTGCAG	GTCTGATGGG	60
GCCATCCAC	CCTGCTGGGG	AGCACAGCTT	GCCCTCCCTC	CCCTCCTTCT	CTTCTGGCGT	120
TGCCTGCTGG	GTGCCATCGG	AGCAGTCCTC	ATTACTTCCC	ACTTTTGCCC	AACTTCTGCT	180
GCTGTGACCA	GTCGCATACA	CGTGGACACC	GTGGGGACTG	CCCCTCCATA	CAGTCCTCT	240
GTAAGCTTAG	GACCAAGGCT	GCCTCTCCAG	TCTCCCTGGC	CCATGCCTGC	CCCGGCATCC	300
TCCGCCCCAG	CTACACTGGC	CCCCGATCTC	GAG			333

(2) INFORMATION FOR SEQ ID NO:1283:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 269 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1283:

GAATTCGGCC	AAAGAGGCCT	AGGACGTTGG	TGTTGAGGTT	AGCATACGTA	TCAAGGACAG	60
TAACTACCAT	GGCTCCCGAA	GTTTGCCAA	AACCTCGGAT	GCGTGGCCTT	CTGGCCAGGC	120
GTCTGCGAAA	TCATATGGCT	GTAGCATTCG	TGCTATCCCT	GGGGGTTGCA	GCTTTGTATA	180
AGTTTCGTGT	GGCTGATCAA	AGAAAGAAGG	CATACGCAGA	TTTCTACAGA	AACTACGATG	240
TCATGAAAGA	TTTGTAGGAT	GAGCTCGAG				269

(2) INFORMATION FOR SEQ ID NO:1284:

- (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 339 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1284:

```
GAATTCGGCC AAAGAGGCCT AGAGCGTCAA TTATATCAAT TTGTCCCAGA TTTGGATGAG      60
CTGTGAGGAT GTAACACAAG GCTGGAGGAG GCAGATGAGT TTTTATCTCT TCACAGGGCT      120
GGTCGCGGCC AGGTGTTTTC AGAGGTATCG CTGGGGGCCA CAGGGTGTCA ATCAAACCTGA      180
AAATCCCCGC TGTCTTCCT CTGGTGACTT TCTGTAGAAC CTTCATTCCC ACCAGGCTGC      240
AAGACTTCCC TTCCAACGT CTTGCCTTCG ACATGGTGAA CTCCAAGTGC ACTTCACCGA      300
ACATTCACCA GGCATCTTGT ACCAGAAGGC AGGCTCGAG      339
```

(2) INFORMATION FOR SEQ ID NO:1285:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 496 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1285:

```
GAATTCGGNN AAAGAGGNCT AGAAATCANA AAGCATGCCT GTGCAATTGA ACAAAGGGCT      60
AAGTTCTAAA AACATCAGTT CATCTCCAAG CGTTGAGAGT TTGCCTGGAG GAAGAGAATT      120
CACTGGCTCT CCACCTTCAT CTGCTACTAA AAAAGATTCC TTTTATTAGCA ACATCTCACG      180
TTCTCGCTCA CACAGCAAAA CTATGGGCAG AAAAGAATCT GAAGAAGAAT TAGAAGCCCA      240
AATTTCTTTC CTCAAGGGC AGTTGAATGA CCTGGATGCC ATGTGCAAAT ACTGTGCAAA      300
GGTGATGGAC ACTCATCTTG TAAATATTCA AGATGTGATA TTACAAGAAA ATTTGGAAAA      360
AGAAGATCAA ATTCTGGTTT CCCTGGCAGG ATTA AACAG ATCAAAGACA TTCTAAAAGG      420
TTCCCTGCGT TTAACCCAGA GCCAGCTAGA GGCCGAAGAG AACGAACAGA TCACCATTGC      480
GGACAACCTA CTCGAG      496
```

(2) INFORMATION FOR SEQ ID NO:1286:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 319 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1286:

```
GAATTCGGCC TTCATGGCCT AGCAGAAGCT AAGAACTGTC TTAATAATAA TTTTAAAGT      60
AAATAAGTTA TAATGCATAG GTTAGCCCAT TCATTAATGA TTTTCAGTTT CAAGTGTAAT      120
TATTTCTTAA TGATTACTAG TTGATCAGTG TAATGAAAAC ATTGAGTAGA CAAACTAAAT      180
GCACAGTATA AATGTGACAT AAACACTGGT TTCAATTTGT CTCAAGAAAA AAGAAAAAAA      240
AAAGGCCCTT GCAATGGCAA AGAGTGGCCA CTATTGGGGT AATTCAAACA ACCCACTGTA      300
ATACAGGAAA GCACTCGAG      319
```

(2) INFORMATION FOR SEQ ID NO:1287:



- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 261 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1287:

AAAATGGAGA AGTTACTGGC TGGAGAAGAT GGGACAAGTG AACGAAGGAA AAGCATCAAA	60
ACCTACAGAG AAATTGTTCA AGAAAAAGAG CGGAGAGAGA GAGAGCTGCA TGAAGCATAT	120
AAGAACGCTC GGTCCCAGGA GGAGGCAGAG GGGATCCTTC AACAGTACAT TGAGAGGTTC	180
ACCATCAGTG AGGCTGTTCT CGAACGCTTG GAGATGCCAA AAATCTGGA AAGAAGCCAT	240
TCAACAGAGC CAAAACCTCGA G	261

(2) INFORMATION FOR SEQ ID NO:1288:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 275 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1288:

GAATTCGGCC TTCATGGCCT ACTCTGAAGA TATTTATAGC TCTCTTAGAG GTGTCAGTGA	60
AGCAATCCAG AATTCAGCT TCCGTAGCCA AGAAGATATG AATGAGCCAT TGAAAAGGGA	120
TTCTAAAAAA GATGATGGCG ATTCAATGTG TGGTGGTCCT GGGATGTCTG ACCCAAGAGC	180
AGGAGGTGAT GCTACTGACT CAAGTCAAAC AGCTCTTGAT AATAAAGCTT CATTGCTCCA	240
TTCAATGCCT ACTCACTCCT CTCCACGCTC TCGAG	275

(2) INFORMATION FOR SEQ ID NO:1289:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 139 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1289:

GCGATTGAAT TCTAGACCTG CCTCGAGAAC GCCGGGGTCC ATCATTAGCA GTCCTCACAT	60
GCGCCGGAGA GCTACATCAA CACGAGAGTG TCCATCTCGC CCACACCAGA CTATGCCCAA	120
CTCATCTTCC CCCCTCGAG	139

(2) INFORMATION FOR SEQ ID NO:1290:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 358 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1290:

GAATTCGGCC	AAAGAGGCCT	AATAAGTTTG	ATTAAGCTTG	CAGACATTAA	GCTTTTCTAG	60
CAGCTGGTGT	GTGCAGAGGC	AGATGGCTCT	CTGGTTCCAG	GACTACCTAC	AATATAGAGA	120
AATTTTCTCT	ATTCCAGTCA	ATTCATCATG	GGTAAGAATA	GTCCATTTTG	GTAGTGTTAT	180
TTCATCGTTT	ACAATCTACC	TATGGGTACT	GGCTGGTAAC	TGCCTGGATG	TTGACATTTT	240
ACAAAGGCCA	TACTTAACCA	CACTTTTATT	TCTATTTGTG	CGATGCCTTG	GAGTAGTTTC	300
CCAAAGTGAT	TTTGAGTGTG	GAAGAAATGG	TATTGTCCCC	GAACAGCTGG	TGGTCGAG	358

## (2) INFORMATION FOR SEQ ID NO:1291:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 139 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1291:

GAATTCGGCC	TTCATGGCCT	AGAGGATCCT	AATGAAATAC	CTGAAACATA	TATTGGCATT	60
TATCAATGGC	TCAAATCTTC	ATTTATCTCT	GGCCTTAACC	CTGGCTCCTG	AGGCTGCGGC	120
CAGCAGAGCC	CAGGTCGAG					139

## (2) INFORMATION FOR SEQ ID NO:1292:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 442 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1292:

GAATTCGGCC	TTCATGGCCT	ACTATCAGGA	AGTGATTCGT	GGAGAGGGGA	TTTACCTGA	60
TGGTGGAGAA	TACAAACCCC	CTTCTGATTC	TTTGAAAAGC	AGAGACTATT	ACACGGATTT	120
CCTAATTACA	CTGGCTGTGC	CCTCGGCAGT	GGCACTGGTC	CTTTTTCTAA	TACTTGCTTA	180
TATCATGTGC	TGCCGACGGG	AAGGCGTCAT	CCAACTGGTC	CATCACAGTG	CTATTCAGAA	240
ATCTACCAAG	GAGCTTCGAG	ACATGTCCAA	GAATAGAGAG	ATAGCATGGC	CCCTGTCAAC	300
GCTTCTGTG	TTCCACCCTG	TGACTGGGGA	AATCATACCT	CCTTTACACA	CAGACAACTA	360
TGATAGCACA	AACATGCCAT	TGATGCAAAC	GCAGCAGAAC	TTGCCACATC	AGACTCAGAT	420
TCCCAACAG	CAGACTCTCG	AG				442

## (2) INFORMATION FOR SEQ ID NO:1293:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 231 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1293:

```

GAATTCGGCC TTCATGGCCT ACATGAATTA TCTGTGAGTT GGTAAAGGT AATATTGGTT      60
AGCATCAAGA ATAGGAAGCT ATTAGTTTTC AATCAAGAAT AAGCTCAAAT TTGCTCTAAA      120
TCTTAATTTT AAGCTGGGTA ATCATTGATT TACAATTTTT TTCTTGGTGT CACATTTCTT      180
CCAAAACAAT AATCAATGAA GCCTTTCCCA CCCTGTGCCT TTGCTCTCGA G                231

```

## (2) INFORMATION FOR SEQ ID NO:1294:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 355 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1294:

```

GAATTCGGCC TTCATGGCCT ACTCTGCTAA CTTCTGCCT CTATGTCTTT CCCCACCTAC      60
CTCCTCTCCC CATTCACTACT CCTGCGTGAC CTCATCCATT TACCTGCCTT CAATTAGCAT      120
CCATACGTTT CTCCTTTCTC AATATAAGTC CCCAGCTGAG ACTCTGTTC TGAAATCCAG      180
ATTTTTATTT CCAATTCTAC TGAACAACT CAGTCTAAAG CCAAGCCCAT TATCTTCTCC      240
TATAAGCCTG CATCTTTTCT TTCTTTCTT TCTTTTTTT TTTTAAACAG AGGTTAATGG      300
CATTCAACAT CTACCAAGC ACCAGGGAGT TAGATTGAG ACGGATGGAC TCGAG            355

```

## (2) INFORMATION FOR SEQ ID NO:1295:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 429 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1295:

```

GAATTCGGCC TTCATGGCCT AGGCTAACTG TTATTGTCAT CTTACAGCTC AGAAAACAAG      60
CATGGTGAGA TAAGGAACT TACTAAGGT CACATAACTA GTAAGTGGTG GAGCCAGCGT      120
TGAAACTCAG GAAGTCTGTA CACAACCTGG AGGGAAGGCT AATATTGAA ATGATAGACT      180
CAACATTCAG TATTTCAGTA TCGATGAGCT CTAAGTTGAT AGAGCTATGT GTAAAAACCC      240
TGCAATTAAT ATTAAGAAAT CATTGGCAGA AGAGTAAGAG AGGGCTTTGG TCAAGTAAGC      300
TGAGTGCATA AGAAACTCT GGCATTTGAG GTGTCCTTAG CTCCAGATGC TTGGTAGGG      360
CAGAGTGTAT CCATGGAGGT ACCATGAGCT ACCATGGAGG TAGCTCAGAG AGGAAAGGGA      420
AACCTCGAG                                     429

```

## (2) INFORMATION FOR SEQ ID NO:1296:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 406 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1296:

```

CTCGAGCTGT TCTGTAAATA CCTGGTGCTA ACATCCCATG CCGCTCCCTC CTCACGATGC      60
ACCCACCGCC CTGAGGGCCC GTCCTAGGAA TGGATGTGGG GATGGTCGCT TTGTAATGTG      120

```

CTGGTTCTCT	TTTTTTTTTC	TTTCCCCTCT	ATGGCCCTTA	AGACTTTCAT	TTTGTTTCTA	180
ACCATGCTGG	GCTAGCTAAA	GGGTGGGGAG	AGGGAAGATG	GGCCCCACCA	CGCTCTCAAG	240
AGAACGCACC	TGCAATAAAA	CAGTCTTGTC	GGCCAGCTGC	CCAGGGGACG	GCAGCTACAG	300
CAGCCTCTGC	GTCCTGGTCC	GCCAGCACCT	CCCCTTCTC	CGTGGTGACT	TGGCGCCGCT	360
TCCTCACATC	TGTGCTCCAT	GCCCCTAGGC	CTCTTTGGCC	GAATTC		406

## (2) INFORMATION FOR SEQ ID NO:1297:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 639 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1297:

GAATTCGGCC	AAAGAGGCCT	ACGCCCCCCA	ACACGCCTGG	GTAATTTTTT	GTATTTTCTAG	60
TAGAGACGGG	GTTTCACCGT	GTTAGCCAGG	GTGGTCTTGA	TCTCATGATC	TCGTGATCCA	120
CCTGCCTCGG	CCTCCCAAAG	TGCTGCGATT	ACAGGCAAGT	GCCACCGCAC	CCGGTGACAC	180
TGTTGCTCTT	AAGCAGAAGC	AAAATCAAAA	GGCAGACAGG	ACTCAAAGAA	TGGTTCTAAA	240
CCTAAAAGTA	CTAAGGCCTC	TAGGAACTAT	GATGATGACA	ATTACTGTGC	AATTTATATC	300
ATGCTGAATT	TTAGTAAAC	CCCTGGCAAA	CCACTCTCAC	TTGGTGACAC	TCCGTCCACA	360
GCACGGGGCC	ACAGCATAGT	GGATCAGTAC	AACCTTCCTG	GACAGCCTTG	CTACCTGTAC	420
ACTCTTATGG	ACTCAATCC	ACTTCAATGT	ATTCGTTCTA	GAGGTAAATG	GACATGTGAA	480
CACAGATTCA	CAGGCAAAGA	TGTTTATATG	CACCACTGTC	TTGATGTTCA	AGAAAATGGA	540
ACTGGTTACA	TGCATGTGAT	TAGCTATATA	ATGTAACGTG	ATTCAGCCCC	TAAAAAATGT	600
AGGCCTCTTT	GGCCGATTGA	ATTCTAGACC	TGCCTCGAG			639

## (2) INFORMATION FOR SEQ ID NO:1298:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 606 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1298:

CGGATTGAAT	TCTAGACCTG	CCTCGAGTCC	AACGGCATCG	ACGTGTACCC	CCAGAAGGAA	60
TTTGATGAGG	ACTCGGAGGA	CCGGCTGGTG	AACGAGAAGT	TCCGGGAGAT	GATCCCATT	120
GCTGTGGTGG	GCAGTGACCA	CGAGTACCAG	GTCAACGGCA	AGAGGATCCT	TGGGAGGAAG	180
ACCAAGTGGG	GTACCATCGA	AGTTGAAAAC	ACCACACACT	GTGAGTTTGC	CTACCTGCGG	240
GACCTTCTCA	TCAGGACGCA	CATGCAGAAC	ATCAAGGACA	TCACCAGCAG	CATCCACTTC	300
GAGGCGTACC	GTGTGAAGCG	CCTCAACGAG	GGCAGCAGCG	CCATGGCCAA	CGGCGTGGAG	360
GAGAAGGAGC	CAGAAGCCCC	GGAGATGTAG	ACGCCACCCT	GCCCACCCCC	GGGATCCTGC	420
CCCCAAGTCA	TTTCCGTCCC	CCCCCCAGGC	CCTCCTCCCA	CGGAGTGGCA	AGACTGGCTG	480
AGGCCTAGCT	CTCTAAACG	GTGGGGGAGG	GGGGAGCGCC	CTGAGAGAGG	CATTCTACTA	540
ACCCACCCCC	AATCACCCCT	ATTTTACTC	TTTCTACTTT	CGGAATTGGA	AAGAACGACA	600
CTCGAG						606

## (2) INFORMATION FOR SEQ ID NO:1299:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 267 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1299:

GAATTCGGCC	AAAGAGGCCT	AGGAGTGATG	TTCATTTTGG	GATTTGCAGG	GTGCATTGGA	60
GCGCTACGGG	AAAACACTTT	CCTTCTCAAG	TTTTTTTCTG	TGTTCCCTGGG	AATTATTTTC	120
TTCTTGGAGC	TCACTGCCGG	AGTTCTAGCA	TTTGTTTTCA	AAGACTGGAT	CAAAGACCAG	180
CTGTATTTCT	TTATAAACAA	CAACATCAGA	GCATATCGGG	ATGACATTGA	TTTGCAAAAC	240
CTCATAGACT	TCACCCAGGG	ACTCGAG				267

(2) INFORMATION FOR SEQ ID NO:1300:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 414 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1300:

GAATTCGGCC	AAAGAGGCCT	AGTGTTTTCC	AATCAAGTTA	ATAAATATCT	GTCTTCGTAC	60
CAGGAAAAAT	TCAATATTAT	TTTAAAGGAG	AAAAAATAAG	AATGTATTGG	TAAAATGCTT	120
TCTCTCACTT	CGAAATATCT	TAGTGAACAA	GAACACTGAC	ATAGAATTAA	AATTCTATGA	180
ACAGCCATAA	CCAAAGGAAT	CTCATTTAGT	GAATATTTAT	GTCCAGTAAC	TGCAACCCAC	240
ACTTAGAGCT	ATCCTTTTGC	TTAAAAACAA	AAATTGGGC	CTTAAGAAGT	GATTAATATC	300
AGGCAAAAAT	AAATTATACT	TTTGTTTATT	TATTCAGGGC	CTTGCTCTGC	TGCCCAGGCT	360
GGACTGCAGT	AGTGCAATCA	TAGCTCACTG	CATCCTTGAA	TTCTGGGCT	CGAG	414

(2) INFORMATION FOR SEQ ID NO:1301:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 284 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1301:

GAATTCGGCC	AAAGAGGCCT	AGTGAAGTTT	ACTGTGATTG	TATGGAACAA	TTTGACAAG	60
AAGAGTCTTT	AGACAGCTTT	ACGTCCAACA	ATGGACCATT	TCAGTATTAC	TTGGGTGGTC	120
ATTCCAGTCA	ACCCATGGAA	AATTCTGGAT	TTCGTGAAGA	TATTCAAGTA	CCTCCTGGAA	180
ATGGCAACAT	TGGGAATATG	CAGGTGGTTG	CAGTTGAAGG	AAAAGGTGAA	GTCAAGCATG	240
GAGGAGAAGA	TGGCAGGAAT	AACAGCGGAG	CACCACAAC	CGAG		284

(2) INFORMATION FOR SEQ ID NO:1302:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 193 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1302:

GAATTCGATT GAATTCTAGA CCTGCCTCGA GCCTGTGCGA GAAAAGTGAA CGCCAGTCTA	60
AAAAAAAAAA AAAAATCTAA AAGAAGCCAA AAATCCACTT GTAATGAGAT TCATAGACCC	120
CTTATTTATA CAACTCACAT ATTTGAATTT TTACATATTG AATTTTCTTT TAAAGGGGTG	180
GAGGGGTCTC GAG	193

## (2) INFORMATION FOR SEQ ID NO:1303:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 305 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1303:

GAATTCGGCC TTCATGGCCT AGGGATACAG CAACTATTTT ATCAATTGTT TGTATTTCCC	60
TTTAAGGTAA CATTTTAAAT GAAATGTATT ATATTTTAAT CTATCCTTTT CCTTTGTTTT	120
TGTTCTTATT ATCTCTTCTG ATATATAACC AAAAAATGAA AAAATCTGTA CACTTGGTGT	180
TTGATTTACC TAAGCACCTA GTTAATTTAA TCTTTGTAAC ACTTTGGATG GTTAACCTAA	240
CCTTTACTCA AGTTGGTTTT TGTTTTGTG AAAATGACTT ACTTGGTGGA ACCACTACTC	300
TCGAG	305

## (2) INFORMATION FOR SEQ ID NO:1304:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 416 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1304:

GCAGCGAGCA GTATACCAGC AGCAGCAAGC GAAAGGAAGA GTTTGCTGAT ATGTCAAAAG	60
TTCATTCACT GGAAGCAAT GGGCTTCTGG ACTTTGATTC AGAATATCAG GAGCTCTGGG	120
ATTGGCTGAT TGACATGGAG TCCCTTGTGA TGGACAGCCA CGACCTGATG ATGTCAGAGG	180
AGCAGCAGCA GCATCTTTAC AAGCGATACA GTGTGGAAGT GTCCATCAGA CACCTGAAAA	240
AGACGGAGCT GCTTAGTAAG GTTGAAGCTT TGAAGAAAGG TGGCGTTTTA CTACCAATG	300
ATCTCCTTGA AAAAGTGGAT TCAATTAATG AAAAAATGGA ACTGCTTGGG GTATTGTCAT	360
TTTTATTACT GTTTGTAGGT TATGTGTACA TTTTTCGCT AGTGAAGTCA CTCGAG	416

## (2) INFORMATION FOR SEQ ID NO:1305:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 345 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1305:

GAATTCGGCC	TTCATGGCCT	ACCAATGTCC	TGCACATTGC	CAGACTTCCA	AACAGGTACA	60
AGTTCCCATC	TGTTCTGCAA	TAGATGAAAG	CAAGTCACAG	TTCCCAGGGC	TACCAAGTGA	120
ATTTCTCAAG	TGGCCAAGTT	ACCTGGCTTC	ATGGCTTGAC	CTGCTGTGTT	CTTTTGAAAA	180
TGGAGAATGC	CTGAGGGCTG	TCTCTAACAG	AAGGGTATGT	GGCAGTATAT	TACAGAATTT	240
ACAAGAAGCA	AGGTGCAAAT	GAATTACATT	GAATTTTCATT	GTTAAGAAGA	GATGATTTAA	300
AATTTGGTAT	TTAACAACAT	AAACGACTTT	GGGGCCCAAC	TCGAG		345

## (2) INFORMATION FOR SEQ ID NO:1306:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 209 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1306:

GATTTCTCTC	AGCTTTTATT	TGTTTGAAAA	ATTTTAAAT	TCACCTTCTT	TTTTGAAAGA	60
TTTTTACTGA	TTATAGAATT	CTAAGTAGTT	TATTCTTCTA	GGACTGTGAA	CATATAATTC	120
TACTGTCTTC	TGGCATTAT	AGTTTCTTTA	TTTTATTTT	TATTGAAAAA	CATTTTCTTT	180
GAGACATGGT	CTCACTCAGA	ATACTCGAG				209

## (2) INFORMATION FOR SEQ ID NO:1307:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 251 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1307:

GAATTCGGCC	TTCATGGCCT	AAGCTTTTGC	TTTTTTAATA	ACTTGTATAG	CTAAAAACTT	60
GACGGTGAAA	AGCTCTCAGA	TCAAAGCTGA	TCCTTCTGTC	AGTAATGATT	CTAAAAATAA	120
GCAAGATTTT	AATGGGGAAT	ATATTTTATT	TCATTCTTAT	CTCAAACCTA	GGTACTGTGG	180
TCGTTTTGAG	TTCATTTTGA	GGCATTTCAT	ATGTGCCTCA	GGCCACATCC	AACCTCTCCC	240
CAGAACTCGA	G					251

## (2) INFORMATION FOR SEQ ID NO:1308:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 317 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1308:

GAATTCGGCC	TTCATGGCCT	ACCTGACTCT	TGAGATACTG	ACTGGAAGAT	AGACTGTTTT	60
GTTCCACCTG	ATTGTATGGG	AGAAATTTT	GACCTTAGAA	AGTGGAAATG	AGGTTGCTAT	120
GGAAACTGGT	AATTCTGCTG	CCACTCATAA	ACTCTTCTGC	AGGTGATGGT	CTTTTAAGCC	180
GTCCTATTTT	TACTCAGGAG	CCACATGATG	TCATTTTCC	TTTGATTTA	TCAAAATCTG	240
AGGTCATCCT	GAATTGTGCT	GCTAACGGTT	ACCCTTCGCC	TCATTATAGG	TGGAAGCAAA	300

ATGGCACAGA ACTCGAG

317

## (2) INFORMATION FOR SEQ ID NO:1309:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 412 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1309:

GAATTCGGCC TTCATGGCCT ACACAGTATC ACTAAAAGAT TTTCATTCGG AAGATCACAT	60
TAGTAAAAAG ACTGAGGAAG TGGTTCTGAA AGATGGAAGA ATTGAAAGAC TAAAGTTAGA	120
GCTTGAAAGG AAAGATGCTG AAATCCAGAA GCTGAAAAAT GTAATCACTC AATGGGAGGC	180
AAAGTATAAG GAAGTAAAGG CAAGAAATGC ACAATTATTG AAAATGCTTC AGGAAGGTGA	240
AATGAAAGAT AAGGCAGAAA TACTTCTGCA AGTTGATGAA TCACAAAGTA TCAAGAATGA	300
GCTCACTATT CAGGTGACTT CACTTCATGC TGCATTAGAA CAAGAAAGAT CTAAAGTGAA	360
AGTATTACAA GCAGAGTTAG CCAAATACCA GGGTGGCAGA AAAGGGCTCG AG	412

## (2) INFORMATION FOR SEQ ID NO:1310:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 239 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1310:

CTCGAGTGTG GTGGTATGTG AATTATATCT CAGTAAAGCC ATCACAGGGC AGAAGAAAAA	60
GAGAAAAGAA AAAGAAAACC TTCGAGGAAG TCCAACAAAA AACATGAGGA AGAAAAGGTG	120
AGAGCCTGAG GATCCACACA GCAGGTACAG CAACTAACTG ACAGAAATTC TAGAGCCAGA	180
CAACAATGAC TAATCAAACCT AACCTCAAAA CAAATGATTA GGCCATGAAG GCCGAATTC	239

## (2) INFORMATION FOR SEQ ID NO:1311:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 278 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1311:

GAATTCGGCC TTCATGGCCT ACAAGGAAGC ACAAGGAGAA AATTATGATG AAATGGAGCA	60
AAACAGGTAA GAGAGAGGGT CAGAGAAGTG AATGTGGGCC TTGATGCTGA AGCCATTGGA	120
GGGTTTCTG TTGAGGAGGA GTATGGGAAT GATATGATCT GACTTATGTT TCAAAAAGTG	180
TACTCTAGCT GCTTTGTGGG AAATATNGGA GGGAGAGAGC AGAATCAAGG AGGCCATTTA	240
AAATGCCATT GCAAATATCC AAGAGAGGCG GACTCGAG	278

## (2) INFORMATION FOR SEQ ID NO:1312:



- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 247 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1312:

GAATTCGGCT TCATGGCCTA ATCACATATG GTAGAGATTT TATACAGAAT TTTAAAATGT	60
GGCATTAAAA AAACCTTGTTT CATGGAAAAC TGCTTTCAGA GATTTTAAAT AAGTGTTTCT	120
CTCACATAGG AACCTAAGCT TCTCAGAGCT TTTAATAGGC TTCTAACAGG CTAATAGTCA	180
AGGCCGTGAC CCAAGAAGGG ATATAGTTCA CAGTGTTTTC CACAAATATT TCACCCGAGA	240
GCTCGAG	247

(2) INFORMATION FOR SEQ ID NO:1313:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 311 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1313:

GAATTCGGCC TTCATGGCCT AGGGTCTTAG CTTTGGCTCT CCTTGCAAAG TTATTTCTAG	60
TTAATTCATT ATGCAGAAGG TATAGGGGTT AGTCCTTGCT ATATTATGCT TGGTTATAAT	120
TTTTCATCTT TCCCTTGCGG TACTATATCT ATTGCGCCAG GTTTCCTCTG TCTCAAAAAA	180
AAAGAAGTTA CTTCCAAGAC AGACTTTTAA GATGTAACCA GCACAAAGCA ATGTCAGGGA	240
GGAGTGATAC ATGACAATAA ATGAGTCAGA TGAGCAAGAA GGCCCCAGAA CCCATGCCCC	300
CAGGACTCGA G	311

(2) INFORMATION FOR SEQ ID NO:1314:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 261 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1314:

GGGGAGCTGC AAACGCCCCG GATACTGTCA GAGATGGAGA AAGGTATGAC AGGAAGAGCA	60
GATCAAGAAG ACGGGAACAG CACGAGGCAC TGGGAGCTGC AAACGCCCCG GATACTGTCA	120
GAGATGGAGA AAGGTATGAC AGGAAGAGCA GATCAAGAAG ACGGGAACAG CACGAGGCAC	180
TGGGAGNTGC AAACGCCCCG GATACTGTCA GAGATGGAGA AAGGTATGAC AGGAAGAGCA	240
GATCAAGAAG ACGAACTCGA G	261

(2) INFORMATION FOR SEQ ID NO:1315:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 326 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1315:

CTCGACTTGC	ACGAGGAGTG	GCAGGATTAT	CTGCAGAGGG	ACCATGGGA	CAGCTAGTAA	60
GGCCAGGTGC	TCTTTAGGCA	CCCCTTCTTC	CACCAGCTTC	AGGCCTGTCA	CAGCATCAGC	120
TGCTGAGAAG	CCAATCTTTG	ACGTTAGAAT	CAGAAGGCAA	AAGGCCAGAA	CTGCTGGCAT	180
TTTTATAATT	GAGAATAGCA	GCTTGTAAGT	GTCTGTGATC	CCTGGGTCT	CTTCTTTTAC	240
TATTGACGCT	TCTCTGTTT	CTTTTTCAG	AAGGGCTACT	AATGTTGTTG	TTATTAAAAA	300
TACAGTAGGC	CTCTTTGGCC	GAATTC				326

(2) INFORMATION FOR SEQ ID NO:1316:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 244 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1316:

GAATTCGGCC	TTCATGGCCT	AACGTCACTC	ACTGTCCTTC	TTAGTATCTA	ATTCTCCTTC	60
ACCTAATAGA	ACAGCAAATT	CTTTGAGTTT	AGGATCCTTA	ATGCAGTGTA	AATATTGCCT	120
TTTATCCTTC	TTCTCAGCTA	TGGTCTCAAT	TCAAATCATG	AGGACCATTG	TGGTGGCTCC	180
CGAATGGCCT	CACTGTTCCA	CTCCTTCCCC	ACTGCGCTAC	AGTCCATTCC	CCAGTGCCT	240
CGAG						244

(2) INFORMATION FOR SEQ ID NO:1317:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 149 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1317:

GAATTCGGCC	TTCATGGCCT	AGAAAGGTTT	GCCTGGTAAG	ACTGAACTGT	TCATAGTTCT	60
TTAAATAAGC	TACAATATT	CCTAATTGTG	TACCCTTGAT	TTTACTGTTT	TCTTGCCCTA	120
GAATGCTGTT	TCTATCATTC	TTCATCGAG				149

(2) INFORMATION FOR SEQ ID NO:1318:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 302 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1318:

```

GAATTCGGCC TTCATGGCCT AGTCAGCAAA GCAAGGGGAG GCAGACCACA GGCCTCATGA      60
CTCTCACTGG AGTGCAATGG GACCCCATG GGGTGAAAGC AGAGGAGTGA GCTGCTCTGA      120
TGTGAGCACT CACTCTGCTT GCCATATAGT GAGTAGACAG GAGAGACCAG GGCAGAAGTA      180
AGAAGACCCA TCAGAGGCTC CTCAGGAACC CGAGTGGGAG ATGGTGGTGG AACAGGGTTG      240
TAGTAGTGGC AGTAGTGAAA AAATGATCAG GTTTTGGAAG TATTTGGAAG GTCGAACTCG      300
AG                                                                                   302

```

## (2) INFORMATION FOR SEQ ID NO:1319:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 219 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1319:

```

GAATTCGGCC TTCATGGCCT AAGAAAAAAA GAAAGAAAGA AAAAAGAAAG TACAAGTTTA      60
TAAAGTATTA TAGTGAAAAA TTCGCATTCT GGCTGATTTT AAGCCATTTA AAATTTATAT      120
AAAACAACCT TCCATAAAAA TTGACAGGT GCCCAGATGT TGCTTTCTCC ATTTATTTTT      180
TGTTTTTTTT TAATCACAGT GGTCTTGAGG CAGGTCGAG                                     219

```

## (2) INFORMATION FOR SEQ ID NO:1320:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 361 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1320:

```

GAATTCGGCC TTCATGGCCT ACTGAGTTAG GTTTTATTAA TGCAGTTTTT ACAGATGAGG      60
CTACTGTGAC ACAGAGGGCA TAAACTTGTC AAAGACATGC AGCAAACAGG ACAGACAAAT      120
CTGAAGCCAG GTTGTCTAAG CTCAGAATCC ACACCTATAA CCGCTGTACC CCACTGCTTT      180
TGCCAGCAGG AGCTCACGTA CTTAGGACAG ACAATCAGTA CAGTGCTAGG CTCACTGAAG      240
GTGTTGAACA AATGTCTGTT CACTCTTTTT GTTCTCAAAA GTACCAGGAA AGGCCAGAAG      300
AAAAAACTAC AAGACTTAGA AACTACAATG GATCAGATCA CTCAGTAGCA CCTCACTCGA      360
G                                                                                   361

```

## (2) INFORMATION FOR SEQ ID NO:1321:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 66 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1321:

```

GAATTCAAAC GAAAGCCAGC TGAGAATACA GGAAACATGT TTCCAGCCAA ACCCAAACA      60
CTCGAG                                                                                   66

```

## (2) INFORMATION FOR SEQ ID NO:1322:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 317 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1322:

```

GATTGAATTC TAGACCTGCA GCTACAGAAG TCAAGATTCC AAAACCAAGA GGCAGACCCA      60
AAATGGTAAA ACAGCCCTGT CCTTCAGAGA GTGACATCAT TACTGAAGAG GACAAAAGTA      120
AGAAAAAGGG GCAAGAGGAA AAACAACCTA AAAAGCAGCC TAAGAAGGAT GAAGAGGGCC      180
AGAAGGAAGA AGATAAGCCA AGAAAAGAGC CGGATAAAAA AGAGGGGAAG AAAGAAGTTG      240
AATCAAAAAG GAAAAATTTA GCTAAAACAG GGGTTACTTC AACCTCCGAT TCTGAAGAAG      300
AAGGAGACGA TCTCGAG                                     317

```

## (2) INFORMATION FOR SEQ ID NO:1323:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 106 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1323:

```

GAATTCGGCC TTCATGGCCT ACTGTAAGGA GGAGATGAAA GAATTAGTAG AAAAGGTTTT      60
AAAAACAGTT ATTATAACTA TATTCCATAT GCTGAAGGCG CTCGAG                      106

```

## (2) INFORMATION FOR SEQ ID NO:1324:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 257 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1324:

```

GAATTCGGCC TTCATGGCCT ACTCCTTTAT TTCCTTTGTC TGTAAGAATA AGTCTTAGAA      60
TAATATTCTT GTTAAGGCCG TGCTTATCCC AATACCGTAT CCATACTGAA CTTTCAGTTC      120
TTTATATGCA CTCTACTCTC TGTCTTTCAG ATTTTTCGAG GTATTCCTTT AGAACACTCT      180
TTCTCTTCCA TCTTATCGCC TACTCTTGG GTTCTGTGTT AACATTACA TTTCTCGGTG      240
GGGGGGCTTA TCTCGAG                                     257

```

## (2) INFORMATION FOR SEQ ID NO:1325:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 78 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1325:

CTCGAGACCG CAAGCACTTC CCACCTCATC CTTATTTCCT CTATCCCTTT TCATTGTTTT	60
TTTCTCCTTT TTAAATTC	78

(2) INFORMATION FOR SEQ ID NO:1326:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 312 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1326:

GAATTCGGCC TTCATGGCCT AGAATTGTCC TCTGTGGAAG GGACTTTCTT TTGGCCCTAG	60
GCCCCTTCCT GCCCCTGTCG TCAGCAGAGA GATGGAAAAC TTGATGACTA GCTCCACCCT	120
ACCGCCCTTT TTTGCAGATG AAGACGGTTC CAAGGAGAGT AATGATCTGG CTACCACTGG	180
GTTAAATCAC CCAGAGGTTC CATAAGTAG TGGCGCCACA TCATCCACCA ACAATCCAGA	240
ATTTGTGGAG GATCTCTCTC AAGGTCAGTT GCTTCAGAGT GAGTCTTCAA ATGCAGCAGA	300
AGGCACCTCG AG	312

(2) INFORMATION FOR SEQ ID NO:1327:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 411 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1327:

GCGATTGATT CTAGACCTGC CTCTCCTTCA AGCATTGCAG CAAACAATTG TACTGTGAAT	60
ACGTCATCAA TTGCAACGTC TTCAATGAAG GGTCTTACGA CTACAGGAAA CTCGTCTCTT	120
AATAGCACAT CTAACACTAA AGTATCAGCA GTGCCTACAA ATATGGCTGC CAAGAAAACA	180
TCTACCCCA AAATAAATT TGTGTGTTGGT AATAAGCTGC AGTCAACAGG AAATAAGCA	240
GAAGACACAA AAGGAACCGA ATGTGTTAAA AGTACTCCTG TCACTTCTGC TGTGCAGATT	300
CCTGAAGTAA AGCAAGACAC AGTGTGAGAA CCAGTCACAC CTGCATCTCT TGCTGCTTTA	360
CAGAGTGATG TGCAGCCAGT GGGCCATGAT TATGTGGAAG GGATACTCGA G	411

(2) INFORMATION FOR SEQ ID NO:1328:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 286 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1328:

```

GAATTCGGCC TTCATGGCCT ACTTTTTCCT TGGTCAGATC ACAATGCTCC TATAAATGTT      60
TCACATAACA TGCTTACTTG TGGGTATACC CTCCTTATCT CCTCAGGGGC TAATTTTGGG      120
AAGGGACTAC TGTCTTACT TTAAAGTTAA ATATAAACTA AATTCCTTCC CTAGTTAGCT      180
CAGCCTACGT GCAGAGATAA GCAAAAGTAG TTAACCTAAA AGATATCACC CTTTGGGGGG      240
TGTCAGAGGC AAAATAGAGT CAGTCATGCT AAGCTCCCCT CTCGAG                      286

```

## (2) INFORMATION FOR SEQ ID NO:1329:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 340 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1329:

```

GAATTCGGCC TTCATGGCCT AGGGGGATTG AAGATTTTTT GTAGGTGGAA GGCCTGAAGT      60
GCGACTAGAG GGCAATAAAT TCAAGGTGGG AGACTGTCTG CTGATGTTCA TTCCACTGGG      120
CTGTTTATGG ACTGGGCTGT TAGTGCTGGA GTGGCTACCC TGGGCAACTA GTGCATTGTT      180
ACTGGAACTA CTTGGGGATA CAGTAGGCTT GGGAGTTGGG TTGGATTAG AAATAAGTTT      240
AGTTGATACT GAAGGCTTAG CTGACAGAGA GGGCTTGGGT GAGGCAGAAG GCTTAGGCGA      300
GGGCAGGGGT TTAGGAGATG TGGCAGGTCT AGAATTCGAG                      340

```

## (2) INFORMATION FOR SEQ ID NO:1330:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 297 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1330:

```

GAATTAAAGA GGGCGATATC ATCACACTCA CTAACCAAAT TGATGAGAAC TGGTATGAGG      60
GGATGCTGCA TGGCCATTCA GGCTTCTTCC CCATCAATTA TGTGGAAATT CTGGTTGCCC      120
TGCCCCATTA GGATGTTATG CTGGCTGGCT CGCCTCCTCT TGACCCAGAT AGTTACGGTT      180
AACCCTGCT TTGGCAATGC TGCTTATAAC ACATCCCAAG TGCAGGCCGC AGTGGTCCAC      240
GTCATCCAGC CCCACCAAGT GACTTTGGTT GACTTGTGGG CTCCACAGG ACTCGAG       297

```

## (2) INFORMATION FOR SEQ ID NO:1331:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 355 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1331:

```

CTCGAGTCCG CTGAGCTGAG AAGCACTGCG ACTTTTCCGT GACAGACCAA CGATAGCTAC      60
CATTTTGGCA CCAAGGCTAG AGCGCCGCTT TTGCCACTG GTGCCCAAGG TGCCCACTGC      120
AGTGTCTAGC TGGCTGCCAT CATTCTTCTC CAGTGAGCAC ATGTCTCCAC TGATGCTGGT      180
GCTTTTGTGC ATGTTCTTCC CTGATATGCC CATTTGTCTG CTTTGCATTT TGGATGTAAA      240

```

GACACTGTCA GCCGATGGAT CATTAAAAGT GAGGACAAGA GTAAAAAGGA AAAGACAGAA 300  
 AATGCATTTT AGATAAAACA TTTGGAGTAT AATTTAGGCC ATGAAGGCCG AATTC 355

(2) INFORMATION FOR SEQ ID NO:1332:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 438 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1332:

GAATTCGGCC TTCATGTGCG GTGAAGGTCC TGTGATTGTA CAGTTAGCAC ATTTTATATG 60  
 ACAGTATAAT CTTAAAAAAT AACATAGAAA CAGAAACATT AGAAACGTAA GTCACAGTTT 120  
 GTGAGTATGT CATTTTT TAG GGAAAAATAA AATATAGTAA CGATTTATGA GGCCCCAAAG 180  
 TTTTATATAA AAATGAAAAA GCTGTTTGGC AGTTAGGACT GACTGTAGCC TTCTGTCAAA 240  
 TCAGTCTTGA CAACTGTAA AAGACATTAT CATCACAAAT AGGGCTGCAT TTCACTCTGT 300  
 CTGTCAAATA CAATCAATAT ATATGACTTT AAGAAAGTGT GACCATTTTC CCAGAGTGAC 360  
 ACCAACAAGA TGGTGAATA GGAATTTT TTTAACTTTA CTCACCTCAC AGAAATCCAA 420  
 CTAGCAACTA ACCTCGAG 438

(2) INFORMATION FOR SEQ ID NO:1333:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 309 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1333:

GAATTCTAGC CCCACCCACT TTCTCAGACA TCCCCACCGG AGGATCCCAT CAGTCACAAT 60  
 CCTCACTAAT TAGACCATT CAAATCCCCA AAATAAAAAA AGGGAAAGAG GTATAGACTT 120  
 ATCTTAAGGG TCTTAAGTTC TGGCATT TTTT CTATTTAATA ATATATATTG CTATAAAATG 180  
 GAATTACTAC CAAAATTTAG AAAATCTTTT AGCAGAAGAT ACAGCCCTAA TCTTACCACT 240  
 CCAGTACAAT CATTATTGAC ATTTATGATG TACTTCGTTA TAGTATCAAA ACAATCCAG 300  
 TATGTGAAC 309

(2) INFORMATION FOR SEQ ID NO:1334:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 243 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1334:

GCGATTGAAT TCTAGACCTG CCTCGAGCTG CCGTGT TTTT CATT TTAATT GTGTGACATA 60  
 AAATGTAAAA TGTACCCTCT AAACCATTTT TTAGTGTCCA GTTTGTGGT ATTAAGTACA 120  
 TTCACATTAT TGTGCAACCG TCCCCACCAT CCATTACAG AACTCTTTCA ACTTGCAAAA 180  
 CTGAAACTGT ATGCATTAAG CAATAACTAT CCCTTCCTTC TTTCTCTTC CCCAGAGCTC 240

GAG

243

## (2) INFORMATION FOR SEQ ID NO:1335:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 280 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1335:

```

GAATTCGGCC TTCATGGCCT AATTCTGGGA AACTGAGAG AAAAATCTGA GGCCATCCAG      60
AAGGAACTAG AACAGACCAA GCAAAAAACA ATCAGTGCGG TTGGTGAGCA GTCCTGCCCC      120
ACAGTCGAGC ACCTCCAGCT GGAGCTGGAT CAGCTAAAGT CAGAGCTGTC CAGCTGGCGA      180
CACGTGAAGA CCGGCTGTGA GACAGTGGAT GCCGTACAAG AAAGAGTGGG CGTGCAAGTC      240
AGAGAAATGG TGAAACTCCT GTTTTCCGAA ATAGCTCGAG
                                                                                   280

```

## (2) INFORMATION FOR SEQ ID NO:1336:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 281 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1336:

```

GAATTCGGCC TTCATGGCCT ATAGGCCATG AAGCCGAAT TCGGCCTTCA TGGCCTAGAC      60
TAATCTTACT GTAGAAATGA TGTGAGATTC TTGTTTGACT ATTTAGAGC AGATTCGGTA      120
TCTAATGGGA TTCCATCTTG ATGTACAGAG CACCTTCTAC ATAATGAATT TTGCATTTC      180
GATGGATGAA GCCTTTAACA CAGACAGAAT TTTAAGTATT GCATATTTCT GGAAGAAAAG      240
CATTGATCAC ATCCTCCTTA GATATTTAGT AATACCTCGA G
                                                                                   281

```

## (2) INFORMATION FOR SEQ ID NO:1337:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 172 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1337:

```

GAATTCGGCC TTCATGGCCT AATATTTAGG TAAAAAGGTA AACTAGTACA CCTACCAGAA      60
AAGATAAATA TTAATTTATT GCATCTCTGA CATGAGAAAA AAAGCCTTTA TGTTTACTG      120
TTTTTTTCTA ATTTTCTTT TTCTTTTTTT TTTTCACATG AATGTTCTCG AG
                                                                                   172

```

## (2) INFORMATION FOR SEQ ID NO:1338:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 235 base pairs
  - (B) TYPE: nucleic acid



(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1338:

GAATTCGGCC TTCATGGCCT ACTGTATTTC ATAGTGAAGT GTTCATAAAC TAAAGAGTCA	60
TTGATTGGGT TTCCTGGCTA ATTAAAATCT GAATTCATT TGAAGTTCCA TTGAAATCAT	120
GGTTTTACTC TATAGCAGTG GATGTTTTTT CCCAACCTTT CTGATATTTT TTTCCTTCCT	180
GAGACAGGGT CTTGCTCTGT CACCTGGGAT GGAGTGTAGT TGCACCAAAC TCGAG	235

(2) INFORMATION FOR SEQ ID NO:1339:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 148 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1339:

GAATTCGGCC TTCATGGCCT ACTTGTTTTT AAAGGCATAT GTTGTTTTAT TGTGCTTCAC	60
AGGTACTGTA TCITTTTTTA CAAATCTAAG TTTGTGGCA ACTCTGTGTC AAGCAAGGCT	120
ATTGGCCCCA TTTTCCCAAC AAGCACGC	148

(2) INFORMATION FOR SEQ ID NO:1340:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 257 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1340:

GCCTGTGTGA AGTTTGACT TTAATCTACC AGATCACTCC TTCACCCTCC ATAAAGATGT	60
CTGAACCTGA CACTTCCTCA GGATTTTCGG GAAGTGTGGA GAATGGAAC TTTCTTGAGC	120
TGTTTCCAC ATCCCTGTCC ACGTCAGTGG ACCCATCCTC AGGCCACCTG TCAAACGTCT	180
ACATCTATGT GTCCATATTC CTCAGCCTTT TAGCGTTTCT GCTTCTGCTT TTAATCATTG	240
CCCCCAGAG GCTCGAG	257

(2) INFORMATION FOR SEQ ID NO:1341:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 259 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1341:

GAATTCGGCC	TTCATGGCCT	ACTATAAAGT	ACTCTCGCTG	GTATTGTCAG	TATGTGTGTT	60
AACAACAATA	CTTGTTGTA	TATTTGGGTT	GAAACCAAGC	TGTGCCAAAG	AAGTTAAAAG	120
TTGCAAAGGT	CGCTGTTTCG	AGAGAACATT	TGGGAACTGT	CGCTGTGATG	CTGCCTGTGT	180
TGAGCTTGGA	AACTGCTGTT	TAGATTACCA	GGAGACGTGC	ATAGAACCAG	AACATATATG	240
GACTTGCACC	AAACTCGAG					259

## (2) INFORMATION FOR SEQ ID NO:1342:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 268 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1342:

GAATTCGGCC	TTCATGGCCT	AGTCCTTGAC	TCTGGAGTTT	TACAAAGCAG	TCACATTTC	60
AATAAAAGTC	TGGGAAAGCA	ACACATCATC	GCCCACTTTT	AATTTTGCTA	AATAAGGATA	120
TTAGAAAAAG	AATAGAAAAT	TGCAGTCCCT	TACTGTTTAA	AGAAAAACCA	AAAGAAGTTA	180
AAAAAAAAC	AACCTCATTA	TGTTGTCTTT	GTTTTGTTT	TGTTTCTTT	CCTTGGAAT	240
CAGTGAAAGT	TTGTCAGCC	ACCTCGAG				268

## (2) INFORMATION FOR SEQ ID NO:1343:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 241 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1343:

GAATTCGGCC	TTCATGGCCT	AGCCATTAA	TATACTAAAA	CAGTGTGTA	AATTAACTTT	60
GGTACAAAT	GCCAGTCATC	TCTAGATCAT	TTTAAGCATT	TTAAGAATAT	TTATTATCAA	120
TCTAAGTACA	GAAGAATAAC	TGCCAGCAGT	GATTATTTGC	TTTGGATTAG	AGTTTTTAAA	180
AATCCACCTC	ACTGAAATGG	TTATGTTTAT	CACAGTTTGC	AAGGTTTGTC	TGTTTCTCGA	240
G						241

## (2) INFORMATION FOR SEQ ID NO:1344:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 313 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1344:

GAATTCGGCC	TTCATGGCCT	ACCCATTCTT	TCCTTCCTGC	CTGGCCTGGG	CCCCTCCTGC	60
ACAGATGGCC	TAGGTACCCA	GCCTGGAGGC	CAAGGCTGGA	TTCCCAGAGT	CTGCCCTGGT	120
GGAGTGGGAA	TAGCAGGTTT	TCTGCACTC	AGGGGAGCTG	CCCTGCAGGG	CTTCCCACAT	180
GTGCTCAGGC	CCCTGTGCCA	GGTCTGGTGA	TGCTTCCTCC	TTGCCTTTCA	GGATCTCCTA	240
TTGCACAGCA	GACAAGATGC	ACGACAAGGT	GTTTGCATAC	ATCGCCCAGA	GCCAGCACAA	300

CCAGAGCCTC GAG

313

## (2) INFORMATION FOR SEQ ID NO:1345:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 327 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1345:

GAATTCGGCC	TTCATGGCCT	AGGCTTCTCT	TCTGAATGA	TTGGTAGTGT	TGTTATTTTC	60
TTGTTATTCA	GTTTACAAG	TACATAATCA	ACATCAGTGC	TTGGGAAGTC	AGGAGTACGA	120
GAGATAAATA	AGAAGTATAT	GATCTTTTCT	CTTATTTTCT	CTCAGTATAA	GTTGGACCTG	180
TTTTTCCCTT	CATCTCTTTT	TCTTCAAGAA	CATAATATCG	GCTGAAGTGG	AATGAGTATT	240
CAAATTGTCC	AAAAAATAT	ACAAGTGAGG	GAATTAATAA	AATTTTTTGT	AATTATAAAT	300
ATGTATATAT	TGGGGGGCAG	TCTCGAG				327

## (2) INFORMATION FOR SEQ ID NO:1346:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 189 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1346:

GAATTCGGCC	TTCATGGCCTA	AATCCTTGGA	AATACAATGA	GACTCATCAG	AAACATTTAC	60
ATATTTTGTA	GTATAGTTAT	GACAGCAGAG	GGTGATGCTC	CAGAGCTGCC	AGAAGAAAGG	120
GAAGTATGA	CCAACTGCTC	CAACATGTCT	CTAAGAAAGG	TTCCCGCAGA	CTTGACCCCA	180
ACACTCGAG						189

## (2) INFORMATION FOR SEQ ID NO:1347:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 262 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1347:

GAATTCGGCC	TTCATGGCCT	AGTGGGCTTC	AGGAAAGCAA	AATATAAATA	TTATGGTTAA	60
AGAATTATATA	ATTAAGATT	CACCCATAAT	TCTTAATACT	GTGTTGACAA	TCATGGCTGC	120
ATTGTCTCCA	AAAACAAAAG	AAGATGGATC	CAAAGATACG	TCTAAGGAAA	TGGAAAATCT	180
TTGGGGTATC	AAATCGATTA	ATGATTATAA	CACTTGGTTT	CTTGGTGTG	ACACGGCAAC	240
AGAAATAACG	GAAAAGCTCG	AG				262

## (2) INFORMATION FOR SEQ ID NO:1348:

## (i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 333 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1348:

GAATTCGGCC	TTCATGGCCT	AGTAATGTTA	AAACAAACGA	AATAAAAATA	GAAGGAAAAA	60
CTTTCTGAGT	TTCAAAAACA	ACAGACTAGT	ACTCTAAAGA	ACTCTTTAAA	ACAATTAAct	120
GTTAGGATTG	CAGTTATGAT	TGGATATTAT	TTAATTCTGT	TTCTGATGTG	GGGTTCTCTC	180
ACTGTGTTCT	GTGTGCTATT	AATATTTACC	ATTGCAGAAG	CTTCATTGAG	TGTTGAAAAA	240
GAATGCTTAG	TGGATCTGTG	CCTCTTATGC	ATATGTTACA	AATTATCTGG	AGTTCCCTAAT	300
CAATGCAGAG	TTCCCTCCC	CTCCGCGCTC	GAG			333

(2) INFORMATION FOR SEQ ID NO:1349:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 553 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1349:

GAATTCGGCC	TTCATGGCCT	AGGAAGACAG	ATTTCACAGA	GAGTGGGTTT	CATGTTAAAT	60
GTCTGATTTT	CTGTGCGGAT	GCCCCACAA	GGACACTAGG	TTTTGTGGGC	CAATGTGTTA	120
TGTGTGTATG	TAGGCAAGCA	GGAGGGGGTG	GGTGGGCTTC	TTTTTTTTTC	TATTTTTTTC	180
TTTTCTTTTT	TGTTGTGGA	AGAACCACGT	TAACCCCTCT	AATTTCTTTA	AAAAGACATA	240
AGGTTTGAAG	AGGAGATTTT	AGGAAGAAGC	AAAAGAAAAA	AAATGGGATA	CATATATTGC	300
ATCTGTAATC	CAATCAAGCT	GTCACCTGAAG	ACAAACTTGA	TCTCTGTTCT	CACCACTTGA	360
CACACTCATC	AGGCTATAGG	TCAACTCTAA	GTGTGGTGAC	AGGTGATGGA	CTCTATGCCA	420
ATTCTGATAC	TGAATTTTCT	TTTGCTTATT	GAAGCTTCAT	TTTGTGTGTT	TTAATTATGA	480
AAGTATAGTA	ACACCTACCA	TGCATACCAA	AGCAATATCA	ATATTTTCAA	ATGCATCTTC	540
CCCCATTCTC	GAG					553

(2) INFORMATION FOR SEQ ID NO:1350:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 246 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1350:

GAATTCGGCC	TTCATGGCCT	AGGTTTGTGT	TGTTTGTGTTT	TAAAGGAGTT	AGACATAGCC	60
TAACAAACTG	GAAATTGACA	TTTCCATCTA	TTTTCTCTCC	TTTTGAAGCT	AAATATGTCT	120
TTGTTATTTT	GGTTCCTAGT	CCCCATTACT	ACTTATTTTC	TGATAGTTCA	TCCACAGCAA	180
CTTCAGTCAG	TTAGCTCACT	AGTTCTTATG	GCTAGAGATT	CCGCCAGTTT	TCCCCTAAAA	240
CTCGAG						246

(2) INFORMATION FOR SEQ ID NO:1351:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 231 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1351:

AAAGAAAAAA	TAAAAAAA	AAAAAAA	GGAAGTGTA	TGTCAGACAC	ACAAGAAAAG	60
CAAATCAGTG	TTGTAAGCTT	AAAGTACAAT	TTCAAAGGTC	ATTACCAACA	GCAGGGTTTT	120
TTTTTACTT	TAAAAACATT	ATGCTACATA	TCATTGCCAT	TTTCATATTT	TGGGGTTTTG	180
CTACTCTTAT	ACAATGGAAT	CAATGGAAAT	GTCATCCAGC	CAGATCTCGA	G	231

(2) INFORMATION FOR SEQ ID NO:1352:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 260 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1352:

TGAATTCTAG	ACCTGCCTCG	AGTTGCTCCC	AGGAATAGTC	CAAAGGAGCT	GCTCTTGCCC	60
CTTTATACAC	AAGCGCCAGC	AACCAAAACC	CTCCCTCCTG	GCAATAAGGC	CTCACTATAG	120
TTGCCCTCAT	GCTTCCTAAG	CTCTCTCTTG	CTCTAATAAC	TCTAATTCTG	GGCCAAGCCC	180
AAGAGTGCCA	TTCTTTCTTC	CTAGCTGGGG	ATGGAAAGCT	GAGAGGGGCA	CAAGGAGGGC	240
AAAAGTATCA	CCCTATCGAG					260

(2) INFORMATION FOR SEQ ID NO:1353:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 482 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1353:

GAATTCGCCT	TCATGGCCTA	CTTTTCAAGT	GAATGATTTG	GTGTTTGAAC	CTTCTTGATT	60
ACCTTAAGAG	GGAAAAATGA	AGGAGAGGAG	GGAACCATCA	TCACATACCT	TTACAGTTGT	120
GGAATGTTAG	CCCACTATAG	TGTTTAACTA	AGGAAAATCT	AATATAATAC	ACTCCCAAGT	180
GATCTGAAAT	GATCCGCTAT	TCAGAATTCC	AGAGAAAGAC	ATATCCCTGC	CAGAAGGGTG	240
TCCTTCATAA	CCAAATTTGG	TCTTCAGTCT	GGTCGGTGCA	TACTCAAACA	GGAATCACTT	300
CCCTTAAGGA	ACCTAAGGTA	TGCAGTTGAG	ATCAACTTAT	TCCTTTTGA	TTTGTCCCCT	360
TAAAGCATCA	ATCAGACGTG	AATGCATCTT	GTGACTTGGA	GTTACTAGTA	ATATTGAAAT	420
CTGAAACTTG	GGGGATCTTT	GAAGACACAT	GGGATTAAAA	GCTGCATAAT	ATACATCTCG	480
AG						482

(2) INFORMATION FOR SEQ ID NO:1354:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 339 base pairs

(B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1354:

GAATTCGGCC	TTCATGGCCT	AATACCCAAA	ATTGGCATGA	CTACTTATAA	AATAGTGCCT	60
CCCAAATCCT	TGGAAATATC	GAAAGACTGG	CAATCAGAAA	CCATAGAGTA	TAAAGATGAT	120
CAGGACATGC	ATGCTTTAGG	GAAAAAGCAC	ACTCATGAGA	ATGTGAAAGA	AACTGCCATC	180
CAAACAGAAG	ATTCTGCTAT	TTCTGAAAGC	CCAGAAGAGC	CACTGCCAAA	CCTTAAACCG	240
AAGCCTAACC	TGAGAACAGA	GCATCAAGTG	CCCAGTTCTG	TGAGCTCACC	TGATGATGCC	300
ATGGTTAGTC	CTCTGAAACC	TGCTCCCAAA	AATCTCGAG			339

(2) INFORMATION FOR SEQ ID NO:1355:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 203 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1355:

GAATTCGGCC	TTCATGGCCT	ACTTTTAGAT	GCTTTACATG	CATAAATTCA	AATAATACAT	60
TAATAACCTT	CCATACATCT	TTCTTTGTGT	ACACGTTACT	ATTTCTGTAA	GATAGATTTC	120
TAAAAGTGGA	ATTCTTAGGC	CAAATGATTT	ACACTTTTTT	TGTTTGTGTTG	TTTTTTTGTT	180
TTTTTGAGAC	GGAGTGTCTC	GAG				203

(2) INFORMATION FOR SEQ ID NO:1356:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 516 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1356:

GAATTCGGCC	TTCATGGCCT	AGGAGAATCA	GGCAGGGAGG	TTGCAGTGAG	CCGAGATGGC	60
AGCAGTACAG	TCTAGCTTCG	GCTCGGCATC	AGAGGGAGAC	CGTGGAAAGA	GAGGGAGAGG	120
GAGACCGTGG	GGAGAAGGAG	AANGAGGGGG	AGGGGGAGGG	GGGGAGAGGG	AGAGGGACAA	180
TGATGTCTTG	CTGTAGGTAT	TCTTCCCAT	TTGAATTTTT	TCCTCAGCAT	TATTTTTTTT	240
AACATCATTC	AGTCTCCTCT	TATACTACAC	TTGGATTGAA	TTTAATATCT	CATGAAGAAA	300
AAACATTTCT	ACTTTGAAGC	ATGTGAATTA	GCATGTTTTT	ATAACAGCTT	TATTGAGATA	360
TAATTTACAT	ATATAAATAA	ACCGTTTAAA	GTGTATAAAT	CAGTGGTTTT	TAATGAGATA	420
TAATTTACAT	ATATAAATCA	ACCATTTAAA	GTGTATAAAT	CAGTGGTTTT	TAAAATATTC	480
ACAATGTTGT	ACGACCGTCT	TCTCAGTCAA	CTCGAG			516

(2) INFORMATION FOR SEQ ID NO:1357:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 405 base pairs  
 (B) TYPE: nucleic acid

(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1357:

GAATTACTAA	TCAAGAAAAA	ACAAAATCAC	AAATCACTAC	CAAAGCAGTT	CATTGTCAAT	60
AATTTTTTTC	CCTTGTATTT	TTGTTTACTT	TTTGCGAACC	CTGAGCATAC	ATCCAAGTTG	120
CCCTAAATAT	ACGCACACCT	GAGGTTGTCT	TTATAGGAGC	TTTATGGTTG	CAAGTTTTGT	180
GTATAATCTT	TAATCATTTT	GAGTTGATTA	TTGTGTATCT	AGTACCATAA	GAGTCCTGTA	240
TTATTCTTTT	GCATATGGAT	ATCTAGTTTT	GGAAATCTTC	CCCGTTGTGT	CATTTTGGTG	300
GTGTTTTGAA	AAATGTGTTT	ATCCATATA	AATTTTGT	TATTATCGAG	CACATTCATT	360
TTGCTCACTG	GTCTGTGTTT	CTCTGTGTAC	GCCAGTAACC	TCGAG		405

(2) INFORMATION FOR SEQ ID NO:1358:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 328 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1358:

CTCGAGTCTG	GCTTTGTTTC	AAAATGATTA	AGATTAAATG	ATGAAATAAT	ATTTTATAGC	60
CACTGCATTG	GATACTTGGA	TTGTTTTTCA	AGCATCTTCT	TATGACTAAA	TCCTCTGTTT	120
CATTCTGTTT	TAAATCTAAA	AAGTAAATG	ATGGTCACTT	GGAATCTGCT	CTATATTTTA	180
ATTATAGTCT	CTTCTGTTTA	TAAACAATAA	CTTACACATA	TTTTTCATAG	TTTAAAGTAA	240
AGATTAAATA	ATGCCATCTT	AGAAAGGATC	TGTTTAAACCT	ATATTATAAA	AGTTAGATAC	300
ACAATTTT	AGCCATGAAG	CCGAATTC				328

(2) INFORMATION FOR SEQ ID NO:1359:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 250 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1359:

CTCGATGGCC	TAAGGCAGTC	TCCTGGAAGC	ATGACATTGA	TGCCCTGGGC	TCACCTCTTT	60
GTTTTGTTTT	CCTTCCACTT	TAGCGGGAAC	CACATCTTCA	AGGGCCGTGC	TGCCGGCATA	120
GCAGTGAATG	AGAACGGCAA	AGGCCTCATC	ACAGGTACGG	ATGGGAACTG	CCTGGCACCT	180
GGCAGCCAGG	CCAAGGTCCC	CTGGCGTCAC	CCCCCAGCTT	CAGGACCTCT	AGGCCATGAA	240
GGCCGAATTC						250

(2) INFORMATION FOR SEQ ID NO:1360:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 206 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1360:

```
GAATTCGGCC TTCATGGCCT ACGATTCTAT TTCCTTATCT GCTTGCAGAG CTATTTAAGA    60
ATCAATGTCT TATTTTTCCT GAGTCCTTTA TAACCTATT CATATTTTCA ATTGCTGATG    120
CCTCTTTGAG CTACGAGTTC TACTTTGTGC ATAACGTTGA GGAATTTCTA CGTTTACTGT    180
TTCTCCTTAC TTCACTCATC CTCGAG                                         206
```

(2) INFORMATION FOR SEQ ID NO:1361:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 377 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1361:

```
GAATTCGGCC TTCATGGCCT AAGAAATCAA CGTTGAACCC TAATGCTAAG GAGTTCAATC    60
CTACAAAGCC TCTGCTGTCT GTGGTGAGCT GGGACAGGAG AATGTGGACT TTGGTTTCTG    120
TGGGGAGACT TGGGCAGTGC TTATAGATGA ATAGGGGGAG GAACACTTCA CTTCCAGGAC    180
CACTTGCCTG GCAGGCAGTG TGAGGAGATG TCATAAAAAT GTAAGGATGG CACCTTTGGG    240
GCTGGCTTGG GGAAAATGGA CTCAGGTCTC TAGGTTTGGG TGATCAGGGA TCCCAGTGAG    300
TCTGATGAGG GGTTAACAGG CTTTCTTTG GTTCTTGCCA TTTGGCTGAG GGAGTATTGG    360
AGTGGGGATA GCTCGAG                                         377
```

(2) INFORMATION FOR SEQ ID NO:1362:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 264 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1362:

```
GAATTCGGCC TTCATGGCCT AGTTAAAGGC AAGTATGTCA TATTACTGAG GCTACAAGTT    60
AGTCAGCAGA TGAGTGCCAG TCCAGCCTTT TCTGGTATGT TATTGTTAGA AATATTGAGT    120
TCTAATGTTA CATCTGAGGA AGTATGTAAT TTGAGAATTG TAACTTCTAA GGGATTCACT    180
GCATCATAGC TATGCCTGTA TGGAGTCTAA CATATGACCA ATACCAACCC ATAATCCAGC    240
ATTGAATTCT AGACCTGCCT CGAG                                         264
```

(2) INFORMATION FOR SEQ ID NO:1363:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 333 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1363:



```

GAATTCGGCC TTCATGGCCT ACCCCTCCCC TAGTTCAGT CCAGGTAAAC AAAAATTGAT      60
TCTATTTTTT CAAAACACCA GCCCCTTCAG ATGGCCTGGT TAATCTTCAT TAACATGTTA      120
TCTTCATTAA CATGTTTATC TTCATTAACA TATTTCTCAG TGATAAGAAG GGCCCAAGGT      180
TCAACATCCC ACTTTGCATC CATGCAGACA AGGGCTGTGG GAAGCTGTAA AACTGAAGAG      240
GCGGTGAATC CAGGAGGGAT TCCCAGATA TCCGTGAGTT GGTGTTTGAC TTTCTTGAAC      300
ACGTCTTTCC TTTACTTTAC ACTTCCACTC GAG                                     333

```

## (2) INFORMATION FOR SEQ ID NO:1364:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 358 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1364:

```

CTCGAGGGGT CATGTTGTG GGGAGAAAGA GACCACATCA CACACAGAGA GAACAAGTCT      60
GTATTAGTTG CTTTGCTAC ATAACAAACC ACTCCAAAT TTAGTGGTTT AGAACAATCA      120
CCTATTAGT TAATGATTCT CTGGTTGCA ACTTGGTCTG GGATCAGCTG GGCAGTTCTT      180
TTGCTGGTCT CAGCTGGGT CAGCTGCCTA TCAGCTAGGG AGCTCTGTTT CAGAGGTTGG      240
TTGGCTATGG GTGGCAGGA TCAAGGATGA CGGAGCCATG TGTCTCTTTT CCCTTTATTA      300
CCCAGCAGGT TAGCCCAGAT CTTTCCTTT TCTTTCCTAG GCCATGAAG CCGAATTC      358

```

## (2) INFORMATION FOR SEQ ID NO:1365:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 292 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1365:

```

GAATTCGGCC TTCATGGCCT ACTTGTTTCAG GGTATGGGCG TAGGATGAGA GAGAATNCCA      60
CAGAGTATGA AGGAAGAGTG ATAGATCCAG ATGAGATACA GCTCAGAGTG CCACGCCCCC      120
AGAAAGAGGA ATCAGGCAAG TACTGTCCCA AGGCAGCTGG AGGGTGAGGG CTGAGTGCCC      180
TGGCTTCCTC ACTTGGGGAG ACCATGGGTC TCTGTAGAAA TTCCAATATA AAGGCAGGGA      240
AATTTGACTG CATGGAGTCT TCAGGTAGAA ATGTTTCTCT TGCCTAAATT CA              292

```

## (2) INFORMATION FOR SEQ ID NO:1366:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 335 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1366:

```

GAATTGAGCA AGATACCTGG GTCATGATCT CTGAACAGGG TGAGAACTT TATAAAATGA      60
TGTGCAGACA AGGAAATCTG ATCAAAGACA GAAAAGAAA ACTGACTACG TTCCCTAAAT      120
GCTTCTTG AAGCGAATT GTGTCATGGC TGTGGAAAT TGGAGAGATT CACAGGCCTG      180

```

AGGAAGGCGT GCACTTGGGA CAAGCATTAT TAGAAAAATGG AATCATTAC CATGTTACTG 240  
 ATAAACATCA ATTCAAACCA GAACAGATGT TATATAGATT TCGCTATGAT GATGGAACAT 300  
 TTTATCCAAG AAATGAGATG CAGGACGTT TCGAG 335

## (2) INFORMATION FOR SEQ ID NO:1367:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 383 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1367:

GAATTCGGCC TTCATGGCCT ACTTCTCTG TTTGCCCTGA CCTTCTTTT TCATGTTAAA 60  
 GCCTTTCCTC AAATGTCTGA TTACCCTTGG CTGCCCCTCA TTAAAGAAAG CGCCACTAGT 120  
 CAGCTCATCG GAAGCTGTGA GGGAGAGGGC TGCATTTGGT CCTGCCAGGT GGAGGAACAC 180  
 TCAGGCATCA GTACTAGGAG GTCTTTCCTC TCAGCCCATG GGATTTCCCT AGAGTCCTAC 240  
 ACGCTGCGGA TGAGGCACCT GGGTGCTGAG TAGAGGAAGG GAGTCATGGG TCAGTCACCC 300  
 TGTATGCAGA TTTTACACA ACCCCCTCTC TCCAGGACAC GCCTCGCCCC CCACCCTAAG 360  
 TAATGCAGAA CCCAAATCTC GAG 383

## (2) INFORMATION FOR SEQ ID NO:1368:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 347 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1368:

GAATTCCTAT GTGACTGCGA TGGATCTCTT TGTTCTGTT TGTTTCATTT TTGTTTTTGC 60  
 AGCCTTGATG GAATATGGAA CCTTGCAATTA TTTTACCAGC AACCAGAAAG GAAAGACTGC 120  
 TACTAAAGAC AGAAGCTAA AAAATAAAGC CTCGATGACT CCTGGTCTCC ATCCTGGATC 180  
 CACTCTGATT CCAATGAATA ATATTTCTGT GCCGCAAGAA GATGATTATG GGTATCAGTG 240  
 TTTGGAGGGC AAAGATTGTG CCAGCTTCTT CTGTTGCTTT GAAGACTGCA GAACAGGATC 300  
 TTGGAGGGAA GGAAGGATAC ACATACGCAT TGCCAAACTG ACTCGAG 347

## (2) INFORMATION FOR SEQ ID NO:1369:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 243 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1369:

GAATTCGGCC TTCATGGCCT ACCATTTTCT ATGAGCAGAG GAGAGTCACA GGGCATCATG 60  
 TGTTAGGAGA AAGAGGCTGG ACTTTATCTT GTCAGTAATG CTGGATGATA CAATAAGGGT 120  
 AGGGCCTCAA AAAGTAAATG TAAAAATGAT ATTTGCACA CATTGGGTG AATAGAGGCT 180  
 GGAGAAAGGG AACCAAGTCA CTATGTATTG GAATAATTCA AGTATAGGCC TGGGATACTC 240

GAG

243

## (2) INFORMATION FOR SEQ ID NO:1370:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 256 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1370:

GAATTCGGCC TTCATGGCCT AGAGGATTAC TTATTTCTCA GCATTCATCT GGTAACCTAA	60
GCAGCATGAA GCAAGAGTTG CACTTTAAAA AATGACAAGA AAATAGCTAT TCATTTAGTC	120
GACAGAGTAA GGCCCATCTC ATTTCCAGGA TCACTAGTTT CTGCTTATGA CGGGGTGAGC	180
ATCCGCCAGC GCGGTGATTG GGAGGCGCCC CTGTGTCTTT AGGCTGAGGC AGTGCCCAT	240
GCTGCAGTGC CTCGAG	256

## (2) INFORMATION FOR SEQ ID NO:1371:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 332 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1371:

GAATTCGGCC TTCATGGCCT AGTGTAGCAA GCTTCCCCTT TGGGAGGGAT GTGAGAACAG	60
AAGACTGAGG ATTGTCTCTA ACTCTAGGAT TCTTTGATGA TTGATTGGAT TGGGGTTTGT	120
TGTTGTGTCT AATATTACGG ATGCTAAAAAT GCCTGTACTT CCAAGGTGAT AGCCACCAAT	180
AACCATACAC GTAGTAGTCA TCCTAGAAGT GTTTTATT CTCTGTGG TTATCTTCCC	240
TACCCCTAGG GTTGGTGTCT GTTTCCTGCT ACTTCAGGTT GGTTCCCAC TGGGAGGCTT	300
CTGCTGACAG AAAGCCCCAT GCTTTGCTCG AG	332

## (2) INFORMATION FOR SEQ ID NO:1372:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 275 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1372:

CTCGAGGGCA ACTGCAGAAG AAAAGATCAG TGAATCTGAT GACATAGCAG AAGAACTAT	60
CTAAAGCGAA GAAGACAGGA AAAAAAGCCC CAATGTGAAA TGAACAGATC ACCAGTGAGC	120
TGTGGAACAA CCTATATGGG TTATAGGAGA CCCTAAATGA GAGAACAAGG GACTAAAAGA	180
AGGATTTAAA GAAATAATAG TACAATTTT TCCAAGTTTC ATGAAAACCG ATTGAATTCT	240
AGACCTGCCT CGAGGCAGGT CTAGAATTCA ATCGC	275

## (2) INFORMATION FOR SEQ ID NO:1373:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 350 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1373:

```

GAATTCGGCC TTCATGGCCT ACAAGACCAT CCTGGCCAAC ATGGTGAAAC CCTGTCTCTA      60
CTAAAAAATA CAAAAAATT AGCCAGGCAT GGCAGCGTGT GCCTGTAGTC CCAGCTACTC      120
AGAAGGCTGA GGCAGGAGAC TTGCTTGAAC CCAGGAGGCA GAGGCTGCAG TGAGCCGAGA      180
TCGCGCCATT GCACTCCAGC CCGGGCGACT GAAGAGACTC CATCTCAAAA AAAAAAAAAA      240
AAAAAGATGA GCCTTTTCTG GGAAAGTGGA AAAGACAGAG AAGCCTCCTG ACAGCCAAGG      300
AGACCAGCAG CCAGTAGAGC AGGTGTTGTA ACAAGGCCGA GGCCCTCGAG                    350

```

## (2) INFORMATION FOR SEQ ID NO:1374:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 273 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1374:

```

GGAAAAATCA AGGAGACATA TTACCACCAA AAGAACAATA ATTTCTCTAGA AGCTGCAAAT      60
AAATAGAGAC TATACACTGC CTTACAGATA ATTTAAAGTA ATTGTTTTAA GGAATCTCAG      120
TGAACCTCAA GAAAATACAG AGAATCAGTT CTATGAAATC AGGGAAACAA TAAATCAACA      180
AAACGATAAA TTAAACAGGT TGAATCACT AAAAGAACCA AACAAATTTT GGGGCTAAAG      240
AATACAATGA ATGAAATGAA AAATACTCTC GAG                                273

```

## (2) INFORMATION FOR SEQ ID NO:1375:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 332 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1375:

```

TGTGGACTAA AAAAGATGCT GGGAAAAAAG TTGTTCCATG TAGACATGAC TGGCATCAGA      60
CTGGAGGTGA AGTTACCATT TCAGTATATG CTAAAACTC ACTTCCAGAA CTTAGCCGAG      120
TAGAAGCAAA TAGCACATG TTAATGTGTC ATATTGTATT TGAAGGAGAG AAGGAATTTG      180
ATCAAAATGT GAAATTATGG GGTGTGATTG ATGTAAAGCG AAGTTATGTA ACTATGACTG      240
CAACAAAGAT TGAAATCACT ATGAGAAAAG CTGAACCGAT GCAGTGGGCA AGCCTTGAAC      300
TGCCTGCAGC TAAAAAGCAG GAAAACTCG AG                                332

```

## (2) INFORMATION FOR SEQ ID NO:1376:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 349 base pairs
- (B) TYPE: nucleic acid

(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1376:

GAATTCGGCC	TTCATGGCCT	AGGCTTCAGC	AGCTTCCTAC	GATCAGCCGA	AGAAAGCAGA	60
AGCTCTGGAG	GCTGCCATCG	AGAACCTCAA	TGAAGCCAAG	AACTATTTTG	CAAAGGTGTA	120
CTGCAAAGAG	CGCATCAGGG	ACGTCGTTTA	CTTCCAGGCC	AGACTCTACC	ATACCTGCGG	180
GAAGACCCAG	GAGAGGAACC	GGTGTGCGAT	GCTCTTCCGG	CAGCTGCATC	AGGAGCTGCC	240
CTCTCATGGG	GTACCCTTGA	TAAACCATCT	CTAGAGAGGA	CATCCCTGCT	GGGCTGCTGT	300
GCAGAGTATA	AGATTTTGGA	CTTGTTTCATG	TCCCCTCTCA	CCCCTCGAG		349

(2) INFORMATION FOR SEQ ID NO:1377:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 437 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1377:

GAATTCGGCC	TTCATGGCCT	AAATATGTTG	AAATAGGTTA	GAAAAGGAGG	TGAATATTAT	60
GGGCTGTGTG	CATTTGTAAA	TTCTGCAGTA	ACTTCAGCGT	TGAGGGTTTT	TTTTGTTTTT	120
GTTTTGTGTT	TGAGTTTTGC	TTACTGAAAT	CAAAGAGTTG	TTACTCTGTC	TGTGGGTGTT	180
TAAGAGACAG	GATCTCACTC	TGCTGCCAG	GCTGGAGTGC	AGTGCAGCCA	CGAATGCCTG	240
GGCTCCAGGC	CCTCCTGAGT	AGCTAGGACT	TACAGGCATG	CACCACCACA	CCGATTTTTT	300
TATTTTTTTA	TTTTTATTTT	TTTTAGTTTT	TAGAGGTGGT	GGGGGGGTCT	CACTGTGTCT	360
GCTTCTGGGC	TCAAATGATC	CTCCTGCCTC	AACCTCCCAA	AGTTCTAGAA	TTACAGAGGT	420
GAGTCACCAC	ACTCGAG					437

(2) INFORMATION FOR SEQ ID NO:1378:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 267 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1378:

GAATTAAAGC	ACTGCCTCTA	TTCAGGCTGC	CGAGGCACTG	CTTTAATTTT	TTGAAAGATT	60
CACCGCGTCT	TCTTGGATTT	CAAGAAAAAT	CCCGTTAAGA	ATTGAGGGGC	TCTCTTCTTC	120
CCCTCCTGAC	GTGAGTGTA	CTCACTTCCT	GGTATGTCTC	CTTTCCTTTT	GGCCTACATC	180
CTTTGTCTGT	TAGGTGCTTC	CACATCCTTA	TGTCTTAAAT	GGCCAAAATA	CGTCACCCCC	240
ACTGCCAAAA	CAAACAGATC	ACTCGAG				267

(2) INFORMATION FOR SEQ ID NO:1379:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 305 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1379:

GAATTCGGCC	TTCATGGCCT	AGAGGTGACT	AGAAGCGAAG	ATGGAGGTGG	CGCAGCACCT	60
CATCCCAACT	CATGCCACCT	GGGGAAGCAG	CTTCAGGCCT	TTCTGTTGTA	ACCTCAGCAG	120
AAACTTTGGG	GTTTATCCTT	TATCTTGCAC	ATGCCCCAGG	GAGGTAAAGG	GACTTGCCTA	180
GGTTCATGTA	CAAACCTTCT	GCTTCCAGAG	CAGGACTTTA	TTGGGACACC	ATAAGGTTGA	240
GGCTGGGAGG	TACCCAAGAA	TTCTGGGGA	TGGTATGTCA	TTGACTGTGG	GTAGAGGGGC	300
TCGAG						305

(2) INFORMATION FOR SEQ ID NO:1380:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 206 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1380:

GAATTCGGCC	TTCATGGCCT	AGGCTTGGTT	GCCTCTGAAA	GGAGGGAAAG	TCTCTTGTA	60
AATTATCTCT	TTTGTGCTGT	TTGCTGTTTC	TCTGCTACCG	TCTTTGCAGT	TCTCCTCTCA	120
CTGTTGTCAG	GCTTTCATAG	TAAGGTTTGG	CGAGAAATGT	TCCAAACATC	ACATTTTGGA	180
TTCTAGGCTG	TCACCCAGG	CTCGAG				206

(2) INFORMATION FOR SEQ ID NO:1381:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 496 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1381:

GAATTCGGCC	TTCATGGCCT	ACTCCTCGAT	GCTGATTCAT	ATCCTACTGC	CCATGGTTTT	60
CTGCGTCTTG	CTCATCATGG	TCATGTGCTA	CTTGAAAAGT	CAGTGGATCA	AGGAGACCTG	120
TTATCCTGAC	ATCCCTGACC	CTTACAAGAG	CAGCATCCTG	TCATTAATAA	AATTCAAGGA	180
GAACCCTCAC	CTAATAATAA	TGAATGTCAG	TGACTGTATC	CCAGATGCTA	TTGAAGTTGT	240
AAGCAAGCCA	GAAGGGACAA	AGATACAGTT	CCTAGGCACT	AGGAAGTCAC	TCACAGAAAC	300
CGAGTTGACT	AAGCCTAACT	ACCTTTATCT	CCTTCCAACA	GAAAAGAATC	ACTCTGGCCC	360
TGGCCCCTGC	ATCTGTTTGT	AGAACTTGAC	CTATAACCAG	GCAGCTTCTG	ACTCTGGCTC	420
TTGTGGCCAT	GTTCCAGTAT	CCCCAAAAGC	CCCAAGTATG	CTGGGACTAA	TGACCTCACC	480
TGAAAATGTA	CTCGAG					496

(2) INFORMATION FOR SEQ ID NO:1382:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 280 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1382:

```
GAAACTAGAC AAGAAATCTC AAGCCATGGA GGAGCTAAAA GCAGAGCGAG AAAAACGAAA      60
GAACAGAACA GCTGAGCTCC TTGCCAAAAA ACAGCCATTA AAAACCAAGT AGGTCTACTC      120
TGATGATGAA GAGGAGGAAG AGGATGACAA ATCCAGTGAA AAGTCAGACC GCTCATCACG      180
AACATCATCG TCTGATGAAG AAGAGGAGAA AGAAGAGATC CCTCCCAAAT CCCAACCACT      240
TTCCTTACCT GAAGAATTGA ATCGGGTTCG ATCTCTCGAG
```

(2) INFORMATION FOR SEQ ID NO:1383:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 262 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1383:

```
GAATTCTAGA CTGCCTCAG TCTCCCGTC ATGCTCCCTC TGCCCCGCC TCAAAAAAA      60
AAAAAAAAA AAAAAAACA ACAGCACCTG TCCAGGCTTC CTTAGGTACA TCTTCTTGT      120
ATCCATTGGG AGGCTCTGAG ACTGGCCCA CTTGGTCCTA AGAATCCCAA GGTCTTTGGG      180
AGCGTCCAGC ATGTTAATTA GCGTATCATT ACATACTGCT ATCCCTTTC ATTCTTTT      240
GTTCCATCAC TCTCCTCTCG AG
```

(2) INFORMATION FOR SEQ ID NO:1384:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 458 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1384:

```
GAATTCGGCC TTCATGGCCT ACAGATTATC TTACTACTGAA CTGATCAAGT ACTTTGAAAA      60
TGACTTTCGAA ATTTATCTTG GTGTCCTTCA TACTTGCTGC ACTGAGTCTT TCAACCACCT      120
TTTCTCTCCA ACCAGACCAG CAAAAGGTTT TACTAGTTTC TTTTGATGGA TTCCGTTGGG      180
ATTACTTATA TAAAGTTCCA ACGCCCCATT TTCATTATAT TATGAAATAT GGTGTTCCAG      240
TGAAGCAAGT TACTAATGTT TTTATTACAA AAACCTACCC TAACCATTAT ACTTTGGTAA      300
CTGGCCTCTT TGCAGAGAAT CATGGGATTG TTGCAATGA TATGTTTGAT CCTATTCGGA      360
ACAAATCTTT CTCCTTGGAT CACATGAATA TTTATGATTC CAAGTTTGG GAAGAAGCGA      420
CACCAATATG GATCACAAC CAGATGGCAG GACTCGAG
```

(2) INFORMATION FOR SEQ ID NO:1385:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 284 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1385:

GAATTCGGCC	TTCATGGCCT	AAGTTTTCAT	AATCTTTCTA	AGCAAATAAA	TTGAGCATGC	60
AGGTTTTTTT	TGCTTTCAGT	AAGTATGTTA	AAGATATTTA	TTGTACTTTG	GTTTTCTTTT	120
CTTTTTTTTT	TTTTTTTTTT	TTTGAGACTG	AGTCTCTGTC	ACCCAGGGTG	GAGGGCAGTG	180
GCCCAACCTC	AGCTCACTGC	AACCTCCGCC	TCCCATGTTC	CAGTGATTCT	CCTGCCTCAG	240
TCTCCCGAGT	AGCTGGGATT	ACAGGTGTGA	GCCACCACGC	CCAG		284

## (2) INFORMATION FOR SEQ ID NO:1386:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 275 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1386:

GAATTCGGCC	TTCATGGCCT	AGTAGTTGTT	CCATGCTGTT	GTTTTTTGTT	TTATCTTTCA	60
TTGCCTTTCC	CTCTGCAGTC	AACATTATGA	CCTGGGGACT	CCAGCATCCT	TCAAGCAAGC	120
CATTTCCGAA	GAAGGTGAAA	AGAAGCCAGG	ATGATTGGCA	CCTCCTCCTC	CTCCTCCTCT	180
TCTTCCTCTT	CCCTTGCCCA	GCCCCCTCCT	GTGCGTGTGT	TTGAGACAAC	ACAGGAGCCA	240
GCACAGGAGT	GGAAAATCCT	GTAGCGCAAC	TCGAG			275

## (2) INFORMATION FOR SEQ ID NO:1387:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 296 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1387:

GAATTCGGCT	TCATGGCCTA	ATTGAATTCT	AGACCTGCCT	CGAGCCTCCA	AAAAGAGTAA	60
ATAAATAAAA	ATAAAATTGC	CTTTAAACAG	AAACACACAT	AAAACAAAGT	TATATATTGA	120
ACCTAACCCCT	GTATTCCTC	TGGGAACAGT	GGTTCAGTAT	TCAATAATTC	AGGATTTGCA	180
GCAGCATAGA	ACTTAATGTA	ATGAGAGTCA	AGTATATATT	TCCCAGAACC	CTAAAACTAC	240
TGCATATGTG	AACATATCTT	ATTCATTGAT	TATGTGGGCA	TATAGTGAAA	CTCGAG	296

## (2) INFORMATION FOR SEQ ID NO:1388:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 548 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1388:

GAATTCGGCC	TTCATGGCCT	ACAACTTGTT	CTAGCTTGTTG	ATCCCTCAAA	GTTGGGTCAT	60
ACGTTAGTGC	TAGATACTAG	AAATTTTCAC	TTTTCCACTG	ATCAGAGAGA	CAGACATTAA	120



AAACAAAAAT	AGAAGAAAGG	AAAGCTTTCA	CCCTGCAGCT	TCTTAGCAGG	GAACAATTGT	180
CTTGCCAAAA	CTTTTTTCCC	TTTCTCTCC	CATTTTCTTT	TACCCAATCC	CTTCTTACTC	240
CTTGCCAGTG	TGACCATGCG	CATTGGTTTA	AAAAGATATT	CTTTCCTAAT	CAGGGCAAGA	300
CAGGCAAGAA	TTTTAAAAAA	GGAAGGGAGG	GAGGGAAGAA	GGGAAGGAAA	ATAAATCCTT	360
TATTTTTTTA	AACCTATTTG	AAACCTCTTA	AGAAAATTCC	ACAATAATCA	GGATTCTGT	420
AAATATTGTC	AATATATATG	AACATATTTG	AAAAACTACA	GTTACAGTAT	ATTTACATTT	480
TTGGAAACTT	TTCTTCAGGG	CCAAGTAACA	TGTTGTATCT	TCCTTTTTGC	TTGTGGGGGC	540
TACTCGAG						548

## (2) INFORMATION FOR SEQ ID NO:1389:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 305 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1389:

GAATTCGGCC	TTCATGGCCT	AATATGTTCT	TCACAGGGAT	GAGTCCTAAA	TATTATCTT	60
CAGCCATGAC	ATTTTTCTTG	AATCCAGAT	TTGCATATCC	AACTGCCAAC	TTGATATCTC	120
ACTTGAAGA	ACATCATCAC	AAACCTAACT	CATCTGAAGT	TGGCTTCACA	TTCTCCTCCC	180
CTATCACTAA	CTGCCTTTCC	CACAGTATTC	CCCATTTCGG	TACATGGTAC	CACCATTAT	240
CCAGTTGTTT	AGACCTAAAC	CCTTCTAATT	ATTCTTTTTC	CTATCGTTAT	CCCATATACC	300
TCGAG						305

## (2) INFORMATION FOR SEQ ID NO:1390:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 292 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1390:

GAATTCGGCC	TTCATGGCCT	ACTGGGTTAT	TATTCTATTC	CGTTGATCTA	GCTAGTTTTA	60
AATTTTCTAC	CTTTTCTACC	TGTTTTGT	TAATAGTTTA	CTGTTTTTAT	CTGAACAAAA	120
TTCTCTTTTC	AATAGTTGAT	CCTGCTGAAT	GTCTTCCCGT	AGCATTGGGC	TTCTCAGGT	180
AACCTGGCAT	TTTGGTTTGA	ATAGAAGGGT	TTTTATTGTC	CTTTTTTTCT	TTTTTTATTT	240
TGAGATATTT	ATCTTTTCTT	TATTATTTTA	TTGAGTCGG	AGTCTACTCG	AG	292

## (2) INFORMATION FOR SEQ ID NO:1391:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 217 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1391:

GAATTCGGCC	TTCATGGCCT	AGGCGATCGT	ATTAATTCTC	AAGAAATTTT	CAACAAATAC	60
------------	------------	------------	------------	------------	------------	----

CACCTGGTTA ATGTTTTCAT TAAGGGCACA CATTCTTGCT ATTGAGCCAA TGTTGTTGGT	120
GATGGTGATC AAAGTCGCTC TGGCCAGGTC CTCTTTACTG ACAGCCTCTC GCTTCTCCTT	180
GCTCATCATG TTTCCAAAGC TTGAAGCCAC ACTCGAG	217

## (2) INFORMATION FOR SEQ ID NO:1392:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 438 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1392:

CGGGAGGCTG AGGCAGGAGA ATCACTTGAA CCCGGGGGGT GGAGATTGCA GTGAGCCGAG	60
ATCAAGACAT TGCAATCCAG CCTGGGCAAG AAGAGGGAAG TTCTGTCTCT AAGAAAAAAA	120
AAAAAAAAAA AAAGCTACAC TTTGATCTTT GATTCACTAG ATATCAGTAA GTATTTGCTG	180
CATTTTCATGA GAGCCAACCA TGAGTAAGAC AGAAGTACTT CCTGTCCTCC TGGGCTTTCC	240
TGAGTAGCAG GAGAGATGGA CTAGGAAGAT GAGTGACTGC AGTAGCCTGT GCTGTTCTGC	300
GGTGATGGGA GAGGCCACTG AGAGTCCGGA CAGGCAGGCT GATATTGTGA GAAGGCTTCT	360
GGAAGAAGG AACATTTAAG CTGAGAGTGA GAGTTGCGTA AGAATTTCCC AGGGAGGGGA	420
AAGAGGGAAA CACTCGAG	438

## (2) INFORMATION FOR SEQ ID NO:1393:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 272 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1393:

GAATTCGGCC TTCATGGCCT AAAACTTCCT AGGAGAAGGC AAGAGAAAGC CACCAGACCA	60
GAGCCGAGGA CTAAACTTTA AGGTCGAAGA CGGCAGAGGG GCAGGTTCTC CCCTGCACAC	120
CCCAAGGCCT CTCCTGCACC CGCGAGGCCT TCCTTGAGCG CCCAGGCCCC CGAAATGCCT	180
GCCCTCCTTC TGACAAAAGG AGGGGGTAGG ATGTGAAGGG GTAGTGCAAC CAACAATGTT	240
TTTGTAACA CAACAACAAG GAAATACTCG AG	272

## (2) INFORMATION FOR SEQ ID NO:1394:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 311 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1394:

GTGAAATTGT CAAATAAAAA TATGAAACT CAGCTGACAA GAGTAAATGT CCTTAAAGAC	60
AAAACAATTG AAGAGCTCAG GCAATCTTTA GCAAATGTTG AAAGGATGAA AGAGAAGGCA	120
AATGTTGAAA CGATGAAAGA GAAGGCAGTT GTGAAAACAG AAACTTGAA AACTACATTA	180
GACTCTGCAG AGCAAAAGGC AAGATCAGAC AAAGAGAAGA CCCAGCAGAT GTTAGATGCT	240

GTCAC TTCTG AGCCCCAAC AGCAAAGAGC GCACCTGAAG AAGTATCAGG ACAAGAACAA 300  
GAAGTACTCG A 311

## (2) INFORMATION FOR SEQ ID NO:1395:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 367 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1395:

GAATTCGGCC TTCATGGCCT ACTGTGTGCT TAGTTTTAAA GACAACTTTG AAGTAAACAA 60  
 TGAAATAAAA GATGCTACTA AAACCTCTGA GGCTCCTGAG CACATTTTGC TGATACAGTC 120  
 TGTGGGGCTT GAGGAGACCG CATGTATTGT TCTTCTTTT GTTTTCTTC TGAGTTCTCA 180  
 ACTGCGGAGA GCACCTGAAC CCCCTTTCCT TTTTGACCGC AGGCTGCACT TTGGGCCCCA 240  
 GCCAGCCCTT TTTCTTTTTC TTTTCTTTT GTGGTTCTTC CCTGGAGCGA CTCTGGGGAG 300  
 TCCTGGATAT CCCGCCTGCC CTTCCCTC AGCCCATGC TTGTTCCAAC AGTCTCCACA 360  
 GCTCGAG 367

## (2) INFORMATION FOR SEQ ID NO:1396:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 333 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1396:

GAATTCGGCC TTCATGGCCT ACTTGGAAC GAAAGAGGGC CCAACCTACA ACTAAGAAGG 60  
 GACAAACCTT GAAGTAAGTA AGACCTTACA CACCCAGAAA GAACACTGGG CCCTCCTTCT 120  
 TCAGGGACAA TGCAGTAGCC ACTTGGCTTG TGGAAATTAC TGAAGGCTAT TTCTGTAAC 180  
 TTGCTAGTTA ACTTAGTTTT GTATTTTCAGG CAGAGGTGCG CTCTGTAATG TTGGGCCTT 240  
 GACTTCACAG TACTGGAGAG CTGTTACAC AGATGTTTAG ACCTTCTCT CTCTCTCTCT 300  
 TTTCTTCTTT CTCAACAACT CTTATCTCTC GAG 333

## (2) INFORMATION FOR SEQ ID NO:1397:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 356 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1397:

GAATTCGGCC TTCATGGCCT ATAGGCCATG AAGGCGAGAT ACAGCAGCTG CTGCAGAACG 60  
 TCAAGTCTGA GTTGAGATG GCCCAGGAAG ACCTGTCCAT GACCCAGAAG GATAAATTTA 120  
 TGCTCCAGGC AAAAGTGTCG GAGCTGAAGA ACAACATGAA GACCTGCTC CAGCAGAACC 180  
 AGCAGCTCAA GCTGGACCTA CGCCGCGCG CCGCCAAGAC GAGAAAGGAG CCGAAAGGCG 240  
 AGGCCAGCTC TTCCAACCT GCCAGCCCA TCAAGATCCC GGACTGCCCA GTTCCCGCCT 300

CGCTGCTGGA GGAGCTGCTG AGACCACCGC CCGCCGTGAG CAAGAGCCCC CTCGAG 356

(2) INFORMATION FOR SEQ ID NO:1398:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 447 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1398:

GAATTCGGCC	TTCATGGCCT	AATTCTATGA	GGTATTATTA	TCACTATTTT	ACAGATGAGT	60
AAACTAAGGC	TCACAGAGAT	TAAGTGGCAG	AACTGAAATT	CTCCATATCT	TTTGATTCC	120
AGATTTATTC	TCTTAATCAT	GATATGATTT	TGTCTCATAT	AATCCAATAC	AATAAATAAG	180
GAGGTCAGGC	AGTAGGAGGT	GAAGTTGGAG	AGACTGGGAG	ACCTATCAGG	AGGGGTCATT	240
TATGCCTGGC	TAGGAGTTTG	GACTTTATGC	TGAGGCTATG	GGAGCACTAT	TAAAGTGATT	300
CTAGCACTGC	AAAGTTATGA	TTAGGTTTAT	CAGCCAAAGG	AAAAAAAAAG	ATCTTGTTGG	360
TCACAGTGCA	GGTAGATACG	ACATAATCGA	GAAATGTGAA	GAATGCAGAA	TCAAGAGTTT	420
GGTGCTGGAC	AGAGAGAGGA	ACTCGAG				447

(2) INFORMATION FOR SEQ ID NO:1399:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 428 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1399:

GAATTCGGCC	TTCATGGCCT	AATTGAATTC	TAGACTCTTT	TAAATTTTCT	GCATTTGCCT	60
GAAAAGCACC	CCTGTAAGAA	TAGATTTCTC	ATGGCTCTAA	AAATTATTC	CAAGAATACC	120
TTACTTGGTT	CAAAAGCAGA	CTGTTTCTCT	TCATTTTCATC	TCAAATCAGA	CTTCTGGGCA	180
AGATGTTTCT	TAGAGTAAGC	AAACCTACAA	CCTAAAAATC	TCTTCAAGAG	GCATCTCTGG	240
TCTTGTGACA	AGACCTCTTC	AAAAACCCAC	AGTAAACTC	CCCTCCCTCC	AGTTGGCCAC	300
CAGTCTGCCA	CCAAACATGA	ACAAATTCTG	CTGCTAATCG	GTTTCCCTTG	TGATCTGGTT	360
CCTGAGGTCT	TCGGATCTGT	GCAATGAATT	ATTTATTGTT	TTATTAAACC	GACAGTGGTG	420
TGCTCGAG						428

(2) INFORMATION FOR SEQ ID NO:1400:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 276 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1400:

GAATTCGGCC	TTCATGGCCT	ACTAGACCTG	CCTCAGGGTG	TTCTGTGGTT	TCAGGTGGAA	60
GGTGGAGGGC	CTCGGAGACC	AACTGTGAGT	TAGCGGGGT	TTAGAATCTG	ATGGGAAGAG	120
GGCAGAGACA	ACAGGTTCTGA	AAGAGTCAGG	GCTCCTGGGA	CCTGGGAAGT	AAAGAGTAAA	180

CCTGGGGCAG TGGGTCAGGC CAGTAGTTAC ACTCTTAGGT CACTGTAGTC TGTGTAACCT 240  
TCACTGCATC CTTGCCCCAT TCAGCCCGGC CTCGAG 276

(2) INFORMATION FOR SEQ ID NO:1401:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 316 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1401:

GAATTCGGCC TTCATGGCCT AGCCACCGTG CCTGACCTAC TTATTCTTTT TCCTGTTTCAG 60  
CATCTAGTGT ATGATACGAT TTGCTTATTT GTTTATGTTT CATCATCTGT TCCCCACCCCT 120  
CAGCCCTGGC CCCCTTGCTG GAACGCAAGC TCCAGGCAAA GCTATTTTTCAC CGTTGCTGTT 180  
TTCCAAGGGC CTCGAACAGT GCCCGGCACA TAGCAAATCC TCAGTGAACA TTAGAGGAAT 240  
AAGTGATTCA AGAATAGAGC TGTTAGAAGG TGTTCTGGAG GAAGACGCAT CCGGCTTCAT 300  
CCCTGGCACC ATCGAG 316

(2) INFORMATION FOR SEQ ID NO:1402:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 342 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1402:

GAATTCGGCC TTCATGGCCT AAATTCTCCA GCAAATGAG GATGAAAACC AGGAAAGAAG 60  
AAGAAATGGG ATCCATAAAA CAGTGGACCT TACTTAGGAT GTCTCATTCT AGAGTGACAG 120  
CCAAAAGGGT ATCTCACCTT AGAGTGACAG CTATCCAGCA GACTAATTTC AGATGAGAGC 180  
ATACTGTCTC GGGCTTTCTG GGAAGAATGT GCATTCAGTG CCATAGATAG TATCACTGAA 240  
GAGCTGGGAT GCTTGAGAAG ATTATTTAGT CAAGAAAAAA GAAAGACAAA TCAACAATAT 300  
GTCAAAAAAT TCAGGTCCAA TTATAGAGCA AAAGGGCTCG AG 342

(2) INFORMATION FOR SEQ ID NO:1403:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 333 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1403:

GAATTCGGCC TTCATGGCCT AAGGCTAAAA AGAAGGAAAA AGAAAAGGAA AAAAAGGAGG 60  
AGGAGAAAAAT GGAAGTGGAT GAGGCAGAGA AAAAGGAGGA AAAAGAGAAG AAAAAGAAGC 120  
CTGAGCCAAA CTTCCAGTTA TTGGATAACC CAGCCCCAGT TATGCCTGCC CAGCTTAAGG 180  
TCCTAACCAT GCCGGAGACC TGTAAGTACC AGCCTTTCAA ACCACTCTCT ATTGGAGGCA 240  
TCATCATTCT GAAGGATACC AGTGAAGACA TTGAGGAGCT GGTGGAACCT GTGGCAGCAC 300  
ATGGCCCCAA AATCGAGGGG GAGGTAACCT GAG 333

## (2) INFORMATION FOR SEQ ID NO:1404:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 422 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1404:

```

GGGCCCTGGG  CCCAGCCCC  CAGCCCATCC  GTGGCCCAGG  CACTGGGGGG  CTGAGGTCCT    60
CTGAGAAGGG  ACACAGGGCC  GGGGGGCTCT  CTCAGCCCAT  CAGCAGGAGA  GGACTGACTC   120
CAGAAAAATC  AGCGTTTGTA  CCCACTCAGG  CTGCCAAGAC  CTGTGTCCGT  CCTTCCAAGC   180
TCAACCTTCA  GAGTTCATGA  GGCCCTTGC  CCAGAATGTC  CACAGAGTTC  ATGAGGCCCC   240
TTGCCCGGAA  TGTCCACATT  TGAAACCTCC  CAACACCGAG  CCCCATTTC  AGTATAACCA   300
GGAGGGAAAA  TGGTGCTTGA  AATAAGCATG  CCACAAAGGA  AAACCTGCTT  TCTCGAAATG   360
GGCCCTGGCC  GCCCAGGCC  TGACCTCCC  GGCCAGGATG  GAACGTTCCA  GAAACCCTCG   420
AG

```

## (2) INFORMATION FOR SEQ ID NO:1405:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 314 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1405:

```

GAATTCGGCC  TTCATGGCCT  ACTGGGGTCC  AAACCTGGATA  TCTTGGTGGA  GAACATGGGG    60
AGGCTCAGCT  TTGGGTCTAA  CAGCAGTGAC  TTCAAGGGCC  TGTGAAGCC  ACCAATTCTG   120
GGGCAAACAA  TCCTTACCCA  GTGGATGATG  TTCCCTCTGA  AAATTGATAA  CCTGTGTAAG   180
TGGTGGTTTC  CCCTCCAGTT  GCCAAAATGG  CCATATCCTC  AAGCTCCTTC  TGGCCCCACA   240
TTCTACTCCA  AAACATTTC  AATTTTAGGC  TCAGTTGGGG  ACACATTTC  ATATCTACCT   300
GATGGACACT  CGAG

```

## (2) INFORMATION FOR SEQ ID NO:1406:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 299 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1406:

```

GAATTCGGCC  TTCATGGCCT  AATTGAATTC  TAGACCTGCC  TCGACTGCCC  CAAACCTGAC    60
CCATCCTCAG  ACCCCACCC  CCGTCACCGC  TCCTCCCAAT  GATTCCTCCC  TCTGTCTAGTC   120
CTGCTCTACT  TTCCAAATCC  TCGCCTGCTC  CAAACCTGAC  CCATCCTCAG  ACCCCACCC     180
CCGTACCGC  TCCTCCCAAT  GATTCTTCCT  TCTTTGATCC  TGCCAACTTT  TCCCCAACAG    240
CACCCTAATC  CTCCCCCAA  TCATCACAAT  CCTCCACCAT  ACAATCCCGC  GTTCTCGAG     299

```

## (2) INFORMATION FOR SEQ ID NO:1407:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 199 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1407:

```
GAATTCTAGA CCTGCCTCTC GCTGGAAATC AGCGTTGTAA GATGGACGCC CTGCTCAGCA    60
GAGCTCATCT TTCTAGAAAG GCACCTGGCC TTGGAAGGCG AGTGAGGAAC TGTCATAAGG    120
ACTTTTCTT CCCATGTTGC TTTTCAGGAA AGCTTTCAGG ATGTGGAAT GATGGTTCAG    180
CTATTGGATG AGGCTCGAG                                         199
```

(2) INFORMATION FOR SEQ ID NO:1408:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 220 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1408:

```
GAATTCGGCC TTCATGGCCT AGTGATCCAG AAGAATTACC ATTAACCTTA TTTCAGAATT    60
TAGACTTCCA AATCAGGTTA ATCCTCCAAT TAAAAGAAAG ATTCAGAGTG AATTTTAA    120
AAGGCAAGGC AGTTATATGT TGCTTACAAG AACTAAACA TAAAGGCACA GATAAGTTGG    180
AAGTAAGAGG GAAAAAGACA TGCGAATACT AAGTATAGAG                                         220
```

(2) INFORMATION FOR SEQ ID NO:1409:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 235 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1409:

```
GAATTCGGCC TTCATGGCCT AGATAAGCCC TTCAGAAACA CATGCACTGT TAATTCTGTT    60
TTAAATATAA TAAAAACCAT TTCACCTTGA CATTACCTAT TAAGTTTAC TGAAAGTCAA    120
AAGGCCTACT TACTGTGACT TCCAAAAAAG TATTTTGATA ATATTTGAA AGAAATAAAT    180
AATTTCCCTT TGCATGAAAT TAAAGCCAT GATAATAGGG AAAACATTAC TCGAG      235
```

(2) INFORMATION FOR SEQ ID NO:1410:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 577 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1410:

GAATTCGGCC	TTCATGGCCT	ACCCACGTAA	CGGCTTGGCT	GGGCACCCCC	GCTTGGCTTG	60
GTGGTCCTGG	TTTGGATTGG	CTTTACCCTG	GCATTCCCTT	GCTGGGCTTG	ACCTTTTCTT	120
GCTGGGCTTG	GCATTCCCCT	GGCTGGGCTG	GGTGTTCCTC	CGGTGGGGCG	TGCACTTTCC	180
CTGGGTGGTG	GAGGGGGCGT	GGGCTCTCCC	CGGGTGGTGG	GGGGACGTGG	GATCTCCCA	240
GTTGGTGGTG	GGGGAGGGGT	CGTGGGCTCT	CCCAGGGTGG	GGTTTGGCT	GGGATTGACC	300
TTTCTCCCT	AACAGATTGG	AAACTCGTAA	TTTCCCGCTT	TTTGGTGAAG	CTCGTTGACA	360
GACACCATCT	GCTCGCTACT	ACCAGGCTGT	TGAAAGCAGA	TGGTGGCTGA	GGTTTCTCCA	420
AAGCTGGCTG	CCTCCCCTAT	GAAGAAGCCC	TTTGGCTTCA	GGGGCAAGAT	GGGCAAGTGG	480
TGCTGCTGCT	GCTTCCCCTG	CTGCAGGGGA	AGCGGCAAGA	ACAACATGGG	TGCTTGGAGA	540
GACCACGACG	ACAGCGCCTT	CACGGAGCCC	ACTCGAG			577

## (2) INFORMATION FOR SEQ ID NO:1411:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 275 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1411:

GAATTCGGCC	TTCATGGCCT	AGGGATGCCT	CTCAGTGACC	CTTATATGTC	AGGTATGAGG	60
CGGATGGGGC	ATCTCTCTAG	TCCTTTCTAG	GGTTTTTACT	CTTCTAGTCC	CTTCAAGGGC	120
TGAGTGCTCT	GACTTTATGT	CTTCCCACGT	AGGCGTTGAC	CCTGCACTAT	CAGATCTGT	180
GTTGGCCCGG	CGCCTTCGGG	AAAACCGGAG	TTTGGCCATG	AGTCGGCTGG	ATGAGGTCAT	240
CTCCAAATAT	GCAATGTTGC	AAGACAACCC	TCGAG			275

## (2) INFORMATION FOR SEQ ID NO:1412:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 532 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1412:

GAATTCGGCC	TTCATGGCCT	AGTTTTATTT	TGCACTTGGA	AATATGTCAG	AAATCACTTG	60
AAGGCAAATA	AGATCTGGCC	CTCTGCAGAG	TTAAGTGGCT	AACATGCCCT	AGATCTCCAG	120
GCTTAGAGGC	TGCCCTTTTG	GTACCCATGA	TTCTCCAGGC	CTTTCAGGG	CAACATTGTC	180
CAGCATCTCT	CTCTCTCCTC	CGCCGCTCTT	CCTTTGGAAG	TTTGACTCTC	ATGTGTGGTG	240
CCCGATCCCT	AGGCCACCTG	TGCCGGCCAG	CCCCTGAACA	GATAAATCCT	ACTAAAGGTT	300
AATCCCAAGC	ACAAGCTTTG	GGCTGGTCCT	TCTGGGTTGA	TTGGCTTTCT	CTCTCTCTCT	360
CCTTTTTTGA	GATGGAGTCT	CCTTCTGTCT	CCCAGGCTGG	AGTGCACTGG	CACAATCTCG	420
ACAATCTTGG	CTCACTGCAA	CCTCTGCCTC	CCGGGTTCAA	GCAATTCTCC	TGCTCAGCC	480
TCCTGAGTAG	CTGGGATTAC	AGGTGCCCGC	CACTGCTTCT	GGCATACTCG	AG	532

## (2) INFORMATION FOR SEQ ID NO:1413:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 321 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double



(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1413:

GAATTCGGCC TTCATGGCCT AGGCATCCAG GACAAAAGTT TGGAAAACAA AATAATGGAA	60
CTAAATAGTA CTAACCAAAG TATAGGGTGC TTTATGATTT ACAGAACTCT CTTACAGGCA	120
GTATGTTGTT CAGGCGCCAC TAGAACCAC GTAATGGCAG AGGCTTCCTG TTCCATGTTT	180
AAAAACCTTT CCAAGGCTTT TCATTATTTT CTTATCTGTG GTACCCCTAG CTTCTGTGC	240
TCTAGACACA CTGGCCTACC TTCAACTTCC TTGACCAGTG TAGCTTACAG TGTAAGCTTA	300
CCCCCGCCC CCACCCTCGA G	321

(2) INFORMATION FOR SEQ ID NO:1414:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 457 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1414:

GAATTCGGCC TTCATGGCCT ACATGAACGG AAGAGTGGAT TATTTGGTCA CTGAGGAAGA	60
GATCAATCTT ACCAGAGGGC CCTCAGGGCT GGGCTTCAAC ATCGTCGGTG GGACAGATCA	120
GCAGTATGTC TCCAACGACA GTGGCATCTA CGTCAGCCGC ATCAAAGAAA ATGGGGCTGC	180
GGCCCTGGAT GGGCGGCTCC AGGAGGGTGA TAAGATCCTT TCGGTAAATG GCCAAGACCT	240
AAAGAACCTG CTGCACCAGG ATGCTGTAGA CCTCTTCGT AATGCAGGCT ATGCTGTGTC	300
TCTGAGAGTG CAGCACAGGT TACAGGTGCA GAATGGACCT ATAGGACATC GAGGTGAAGG	360
GGACCCAAGT GGTATTCCCA TATTTATGGT GCTGGTGCCA GTGTTTGCCC TCACCATGGT	420
AGCAGCCTGG GCTTTCATGA GACACCGGCA ACTCGAG	457

(2) INFORMATION FOR SEQ ID NO:1415:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 373 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1415:

GAATTCGGCC TTCATGGCCT AAAAATATCT AGTCACTGTT CTGTTTTACC CATTCTTTTA	60
AACTTGTGTTT TTCAGTTTCA GTCAGGCTTC CAAGAAACT GATAACATTT TGATGGTTG	120
GTTTCTCTTA TATCTTTTTC ATTTACAGT ACATTGTGAT TTAATGATTT ATCTCTTAA	180
TCTTTTTCAG TTCATAGGTT CCTCCTGTCT CTTTCTTTT CCTTGCACTT CATTGTGTC	240
AGAACCTTTG TCCTGTGGTT TCGCACAGTC TGGAGGAATT GGGGAAAGTG GCTGTCTAAA	300
CTGGTTCCTT CCTTCCATT ACTGCTGCAA TCAAGATGTT AGGGGGCCTA CAAGCAATAG	360
AAGCATCCTC GAG	373

(2) INFORMATION FOR SEQ ID NO:1416:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 239 base pairs
- (B) TYPE: nucleic acid

(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1416:

GAATTGGCCT	TCATGGCCTA	GTCAATTGCT	TTTATATCAG	ATATCTAATT	AATCAAACCTT	60
TCTGGTTAAG	TGCCTCCAAT	TATTAACAAT	CCTGCTCAGA	GTTAAGATTA	GCATCCAAGG	120
ATTTTCCTCC	ATATTTCTTT	TCAGAGGCAA	TGGAATTAC	TAGTTTTTTA	GCTCTTCAAC	180
TTTGGCTGAT	GGTTTTAGTG	GTGGTTATGC	TATCTTCAGT	AGTTGGGGA	TCGCTCGAG	239

(2) INFORMATION FOR SEQ ID NO:1417:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 308 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1417:

GAATTCGGCC	TTCATGGCCT	AAGAAAGGTT	AAGTTACTTG	CCTGAGGTAA	CTTAGCATTG	60
ATAGAATTAG	GATTTGAACC	TGGGTAGTAT	GACTCTTAGG	TCCCCATGAG	CTGGCACACA	120
GGTTGCCAAT	CCATCAGTTA	ACCTTCCCAT	CACTGGGTCA	GAGAGCCAAG	GAGCAGAAGG	180
GGGATAGAAC	TTCCCCAGTA	CCAACTAAG	GGGCTGAGCT	GGGATCGCAA	CCACAGGTTC	240
TGTTCCAAAG	CTGGGGCTCT	TTCGACAAGG	CCATGCCCGC	CTTGTCTCTT	ATGCATGCTC	300
CACTCGAG						308

(2) INFORMATION FOR SEQ ID NO:1418:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 174 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1418:

GAATTCGGCC	TTCATGGCCT	AAACAAACAA	AAAAAATGT	TTTATATGCA	AAAGTTTTTT	60
GATCATGCT	TGTATAAATC	CAGCTTTTTT	TGTATCATGC	TTGTATTTTT	TTTTTCTAGC	120
TGTTATTGCT	TTTCTGATAA	TAGTACTGAA	TTTGGTGTTA	TGGCTGGTCT	CGAG	174

(2) INFORMATION FOR SEQ ID NO:1419:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 234 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1419:

GAATTCGGCC	TTCATGGCCT	AATTTTATAT	TATTGTTAAA	CACTGGGCTG	GAATTATGT	60
TTTGGGAAAA	GGCCCATGAG	AGTTTTTGCT	CTGTGGGTTT	TTAAAGGTAA	GAATAAATTT	120
CGTGTTTGAG	ATGTTTTTGA	TGTGCCTGTA	ACCAGAATAG	AAGTGTCTTA	GATTATAACT	180
TTCTCTCAGA	TTGAGTAATT	CTGTTGTAAT	AAGTCAGCAT	ATGTTGCCAT	CGAG	234

## (2) INFORMATION FOR SEQ ID NO:1420:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 157 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1420:

GAAAAATATTT	TTACTTTTAT	AATTGATAGT	ATTTCCTAAC	TCTCAATTAA	AAAAAGTTTT	60
TAAGCATTTC	TGTGATATAG	ATACTATCAT	TTCATATTAC	ACAATGCTTC	TGATGATTTT	120
GCTGTTGTTG	TTAGGGACTA	CTCGAGGCAG	GTCTAGA			157

## (2) INFORMATION FOR SEQ ID NO:1421:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 495 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1421:

GAATTCGGCC	TTCATGGCCT	ACCAGGATGA	GAGGGGAAAA	AGAAAGCCTC	CAGTGACTTC	60
AGTTGCTTTG	CCAGTTGTCT	TGGGATTGTT	TTACACCATC	CTTTACTTCC	CTTGCTCAGA	120
CCTCTCTGTT	TCACCATTGC	TCAGGCATTC	AGGAAAAGTAT	CTGCTCACTC	CCACTTGGTG	180
AGTCTCGGC	CTTGAGGTTG	CTGACTCTCA	GGCGTTAGGC	AGCTGGATGA	CTTCCCGCTT	240
CATGCAGCAA	AGGCCAGGGG	CTTGCGCGCC	TCTGCAGAGT	TGTTGCTAGG	GAGACTTGTTG	300
TCATCATCCA	CAACCTTGTT	TCTCACTTCC	TGTTTGGGCT	CATCTCTGAA	GAACAGGTCT	360
CCCAGCTTCG	CTCCTTATCA	CTGCATTGTG	AAGAGGAGGA	AAAGTGAATC	ACGGAGAGAG	420
AAAGGAAAGG	ATAGAATCAC	AGGCTGCATC	TGCACCTGAA	AAGTGACCCG	CGGAAACTCT	480
ATGGCGGATC	TCGAG					495

## (2) INFORMATION FOR SEQ ID NO:1422:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 449 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1422:

GAATTCGGCC	TTCATGGCCT	AGACAAAAGT	AGAATTAGTA	AACTACTACA	TTGAGTACAC	60
TTTGTGTTAA	AATTCATAGG	GAAGACTTCT	TAAAAACAAG	TGAAATTGTT	AAACCCCCCC	120
CTAAGCATT	CAGATGGCTT	ATAGCTGTCC	ACGGGGTTGG	TAGAGGTGGG	AAAGGGAAGG	180
GTTCTAGGCC	AGAATGTTCC	TATTTAGAAG	ACACTCAAAT	TACAGTCTGT	GTTATGTATG	240

TATACCATTT	ATTCAATGCT	ACTGTGTATA	TAATGGAAAA	CTTAAGTCCA	GTTTGAAACA	300
TCTAGTCTTT	CTAGGTGTTT	AAAAGTGTAC	AACAGCCTGT	CGCAGTGGCG	CATGCCTGTG	360
GTCCACGAC	TTTGGGAGGC	CGAGGCAGGC	GGATCACGAG	GTCGGGAGAT	CGGGACCATC	420
TTGGCCAGCA	TGGTGAAACC	CCTCTCGAG				449

## (2) INFORMATION FOR SEQ ID NO:1423:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 306 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1423:

GGGAGTTTAT	TATTCATTAA	CGAAATTAGC	CCTTTTATCT	GCCATATAAT	TTGCAACAAT	60
TTTATATCAG	CTTTTTTATT	GTCTTTTGCC	TGTTGTTATG	AAAGTTATGG	CCATGCAGAA	120
ATGTGGGATT	TTATGTAGCA	CAGTTGTCTC	TTTTTTTTTT	TTTGAGACG	GAGCCTAGCT	180
CTGTCACCCA	GGCTGGAGNG	CAGTGGCATG	ATCTCGGCTC	ACNGCAACCT	GTGCCTCCCA	240
GGTTCAGCA	ATTCTTCAGT	CTCAGCCTCC	CAAGTAGCTG	GGACTACAGG	CGCCACCCC	300
CTCGAG						306

## (2) INFORMATION FOR SEQ ID NO:1424:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 362 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1424:

GAATTCGGCC	TTTCATGGCCT	AGAACTTTGT	ACACCATGGA	ATGTTCTACT	TATTATTTTG	60
TGCTACAATA	TGTGCTGTTT	CTTTTGTTTG	AATTGCAGAT	TGTCTACTAT	GAAGCAGGGA	120
TTATTCTATG	CTGTGTCCTG	GGGCTGCTGT	TTATTATTCT	GATGCCTCTG	GTGGGGTATT	180
TCTTTTGAT	GTGTCGTTGC	TGTAACAAAT	GTGGTGGAGA	AATGCACCAG	CGACAGAAGG	240
AAAATGGGCC	CTTCTGAGG	AAATGCTTTG	CAATCTCCCT	GTTGGTGATT	TGTATAATAA	300
TAAGCATTGG	CATCTTCTAT	GGTTTGTGG	CAAATCACCA	GGTAAGAACC	CGGATCCTCG	360
AG						362

## (2) INFORMATION FOR SEQ ID NO:1425:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 194 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1425:

GAATTCGGCC	TTTCATGGCCT	AGTATATCTG	AAAAGTACAC	TGTGTTTGA	AATTATAAAT	60
TTTCATTCTG	AATGAGGTTT	CTTTTTTTGA	TTTTCTTTAA	AAAAAAAAAA	CAACCTGCTT	120
TGATTTGCTT	TACATTCCTT	GCCCTCCATT	TTTCTTATTA	TATTGTAAAC	ATTAGAAAAA	180

TGAACACCCT CGAG

194

## (2) INFORMATION FOR SEQ ID NO:1426:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 393 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1426:

GAATTCGGCC TTCATGGCCT AGCCATGTAT TTTCTAATAT CCCTTGGACT TCATCTTTGA	60
CTCATGTTTT ATTTGAAGT ATTGGGATTG TTTTTCAGTT ATCTTTCTGT TATTATTTCT	120
ATTTAATTCT GTTATGGTCA TACAACATAA TTTAAATTCT TCTAAATTG TTGAGGATTG	180
TTTTTGTTGC CCAGAATATG ATGAATCTCT CATTGAATGT TGTATGTGCA GTTGAAAAGA	240
ATGTTTATTC TGCTGTTGGT GGGTAAAGTG TCATGAATAT AATTAGGAGA AATTAATGAT	300
AGTGTTAAGG TTTTCTATAT CCTTGCTTTT TTGGTGTA CT TATTTTATTG ATTATTGAGA	360
GAGAAGGGTT GAATTATCTA GGTGCAACTC GAG	393

## (2) INFORMATION FOR SEQ ID NO:1427:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 119 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1427:

GCGATTGAAT TCTAGACCTG CCTCGAGCCA CCCCGTTAAT GTGTGTGTTG ACAGTGAAGT	60
CCTTGGGTGG GGCCATGTGT GTGTTTGTTGA TGTTCCTTAA GTTGATGCAG CTTCTCGAG	119

## (2) INFORMATION FOR SEQ ID NO:1428:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 327 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1428:

GAAAAAGCAG TAAAAATAGA AATCCATCTT CACCAAGCCT TTAAAGCAAT ATAAATTTAT	60
ACTGAGGTTC CTGCATACTA TAACACACAG AAGGAATTCC TAAAAATGTT CTTTATCCAG	120
CTGTCTACCC AAAGTTCTAT CATCCTGGCA AACTGCTCTC TCCAAAATTC ATCATCTTGG	180
ACTCTCTCTG AAACCTCAAC CCTTCTCTCT TATACCCTGT TCTCCAACAT TCGAATTTGT	240
TTAGTTTGTG TTCTTCCTAA TATAGCTATT TCTGTTTACC ATTTTGAGCT CTGGAACCTC	300
AACCACTACT TACCACCAA ACTCGAG	327

## (2) INFORMATION FOR SEQ ID NO:1429:

- (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 325 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1429:

```
GAATTCGGCC TTCATGGCCT AATCACATAT ACACAATTTA CCCATTTCOA GTGTACACGT      60
AGTGGTTTTA GTATATTTAC AGATAGGTGC AACTATCACC ACAGTCAAAT TTAGAACCCT      120
TTCATCAACC CCAAAAGAAA CACCATACCC TTTAGGTATC GCCTCCCCTA TACTCCACCT      180
TCCAACCTGCT GAGCCCTAAG TTACCACTAA CCTTCCTATC TCTATAGATT TCCTTATCT      240
GAACTTTTGA ATGGAATTAC AGTATCTGGT CTTTGTGCC TGTTTTTTTT TGAATAATGT      300
TTCAAGGTTT ATCCAGGCC TCGAG                                         325
```

(2) INFORMATION FOR SEQ ID NO:1430:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 226 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1430:

```
GAATTCGGCC TTCATGGCCT ACCTAAACCT GGCAGAGTAC ATCATGCCTC CGAGAAGAAA      60
CGTCATTCCA CTCCTTTGCC GAGCACTGCT GTACCAAGCC ATACACCTGG CAGCAGCCAG      120
CAGTCCCCGC TCAACAGTCC TCACCCGGGG CCCATCCGGA CAGGCCTGCC TCCTGGGCAC      180
CAGCAGGAAT TTGCCGACG AGCCAACAGC ACCTCCAACC CTCGAG                                         226
```

(2) INFORMATION FOR SEQ ID NO:1431:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 256 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1431:

```
GAATTCGGTT CATGGCCTAG GATTAACAAC TTGAAAAGG CCTATGATAC TCCTGGTAAA      60
CCTCTTTGTG CTGCTCTCTG TGGTTTGTGT CCTCTTAAAT CTAGCTGGAT TTATCCTAGG      120
CTGCCAAGGG GCCCAGTTTG TGTCCAGCGT GCCCAGGTGT GATCTGGTGG ACTTAGGTGA      180
AGGCAAGATT TGCTTCTGTT GTGAAGAATT TCAACCAGCC AAGTGCACAG ACAAAGAAAA      240
TGCCTTGAAA CTCGAG                                         256
```

(2) INFORMATION FOR SEQ ID NO:1432:

- (i) SEQUENCE CHARACTERISTICS:
  - (A) LENGTH: 240 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1432:

GAATTCGGCC TTCATGGCCT AGGTTGCGGT GAGTCGAGGT CTGCACTCCA GTCTAGGTGA	60
CAGAGCCAGA CCTGGTCTTT AAAAAAAAAA AAAAAAAAAA AGTGAATTCA AAAGATTAGC	120
TAAGACAAAT TGGGAAAAAA AACCAAAGG GGAGTTGACC TAACAGATAT TAAGATGTAT	180
TTCTAAAGCC ATAGCAGCTA AAATAGTACA GTATTAATGT AGGGACAAAC AGAACTCGAG	240

(2) INFORMATION FOR SEQ ID NO:1433:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 229 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1433:

TCATTCTGAA CAAAAGGGAT TAGAGAAGAA AAATCTCTTG ATATAAGGCT TGAAAGCAAG	60
GGCAGGCAAT CTTGGTTGTG AATATTTTCT GATTTTCCCA GAAATCAAGC AGAAGATTGA	120
GCTGCTGATG TCAGTTAACT CTGAGAAGTC GTCCTCTTCA GAAAGGCCGG AGCCTCAACA	180
GAAAGCTCCT TTAGTTCCTC CTCCTCCACC GCCACCACCA CTCCTCGAG	229

(2) INFORMATION FOR SEQ ID NO:1434:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 268 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1434:

GAAATTGAAA CTCAAATCAG TTAGCTTCAA ACAAAAACGA AAGTTAGACC AAGGGAACGT	60
ATTAGATATG GAAGTAAAGA AAAAGAAACA TGATAAACAA GAACAGAAAG GAAGTGTGGG	120
AGCTACATTC AAATTAGGTG ACTCTTTGTC AAACCCAAAC GAAAGAGCCA TTGTTAAAGA	180
AAAGATGGTA TCAAATACTA AGTCTGTAGA CACGAAAGCG AGTTCATCTA AATTAGTAG	240
AATTCTAACT CCTAAGGAGC ATCTCGAG	268

(2) INFORMATION FOR SEQ ID NO:1435:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 247 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1435:

GAATTCGGCC TTCATGGCCT ACAAGACTGT CTCAAAAAGA AAAGAAACAC AAATATTTGA	60
ACTCCAAATA TTCTTTGTGT GTAGAAAAAT CTAATGGATA ATTAAAACTA GAGCAGAGAG	120

AAAAGCCTAG GACTTGAGAG ATTTTATAGAT ACGTGAAGTGA AAAGATTGGA AAAGGCTATC 180  
 AGTTTTAATG CTTGTGCTG TCTTTGTGTG GGCCATGGTA TTTTGAAGA GCACCATGGA 240  
 GCTCGAG 247

(2) INFORMATION FOR SEQ ID NO:1436:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 258 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1436:

GAATTCGGCC TTCATGGCCT ACCTATTTGT GCATCAAGTG GTTATCTAAA TAGTTTGAAA 60  
 GGATTGATAT ACTACATTAT ACGTCAAAAA TAAATAAATA AAATTAAGAA GACAGGGATT 120  
 CCAAGATTGT AGCTGACCAA GCTGTCTTGT TTTGCGTACA TCAACACTAT GCTGCTTCCA 180  
 ATATTCTTAG CCATTCCACA GGTAAATGATT TTTCAACAAT CAAGAGAAAG TCATTCTTGT 240  
 ACTGTAACAT CTCTCGAG 258

(2) INFORMATION FOR SEQ ID NO:1437:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 415 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1437:

GAATTCGGCC TTCATGGCCT AAATCACTTG GATTGGTTCT CTACTTAAAA CACAAGCTAG 60  
 CTACCCAGTC TTGTATTTTG TATTTTAAAG AATTGTTAAA AACTAATTT TGTTTTGAT 120  
 TTGTGTAAAG CATAGTCATA ATTCTAAATC AAACACACTG CATCGAGTTT ATCACTGAAA 180  
 TTCAGCATCT GCTTTTGTCC TCACTTTGTT ATCTTCTGCT CTCATCGATT ACAGGCGTGA 240  
 GCCACCGCGC CCGGCGGTAT GTTCCTTACC CTTAAGGACA AGAAATACCG TTTGAAAACA 300  
 TTCTTCTTGA ACATTAAACAA ACTTAGAATG GTACATTCAT TTAAGAATTA AAATAGGCAC 360  
 AAGAGGATTG AATTTTGGA AATATGTTGCT TAGAAATTG GGGGCAATTC TCGAG 415

(2) INFORMATION FOR SEQ ID NO:1438:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 267 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1438:

GCGATTGAAT TCTAGACCTG CCTCGAAGTG CCAGCAGCAG AGGAGATGAC AGTGACATAT 60  
 ACAACAGAGG CTGGGGTGGG CACTCCAGGA GCCCTGGAGC GGAAGACCTC AGGGCTAGGA 120  
 CAGGAGCAAG AGGAAGGGTC AGAGGGCCAG GAGGCAGCCA CTGGGAGTGG CGATGGGAGG 180  
 CAGGAGACAG GAGCAGCTGA AAAATTCCGA TTAGGATTAT CACGGGAGGG AGAGAGGGAA 240  
 TTGAGTCCGG AGAGTCTACA GCTCGAG 267



## (2) INFORMATION FOR SEQ ID NO:1439:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 301 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1439:

```

GCGATTGAAT TCTAGACCTG CCTCGAGTCA TATCCCTGAG CAGTAGAGTA AATTAAATCC      60
TTTCTGAGAG TCTTAGATGT TTTTCTATGT CTCTTCTTTC TTATTCTCTC TCTGTTTCTT      120
TCTCTCACTC ACACACACAC ACACACACAC ACACACACCC CTAAAATTTG TTCTGAATGG      180
CCCACTAGGG CTGAATCATT TAGTGAATTG ATTGATTACT ATCCTGAGTT CTTCTTCTCTG      240
CTCCAGACT AGTGAAAATA TTCCAGAAAG CTTAATATT GGAGAAAAGG CAACGCTCGA      300
G                                                                           301

```

## (2) INFORMATION FOR SEQ ID NO:1440:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 251 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1440:

```

GAATTCGGCT TCATGGCCTA GCATTTGGAA GTAATTTTTT AAAACAACAT TCATATTAAT      60
TTAAGGAGCA TAACAGATTC CAGTGAATGT TATGATTCGC TATTGTAACA TTATTCTAGT      120
AAATATGTTG GAGAAGAACA GTTCTAGTGA ATTAAGTATG GTTTTGGAAG GCAGCTATGC      180
TCACCATCAT ACCACCAACA CAACCATGGT TTTATTTTAT ATTATTTATT TTATTTTGA      240
GACAGAGTCT C                                                                           251

```

## (2) INFORMATION FOR SEQ ID NO:1441:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 274 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1441:

```

GGAATTGGAA AGCGTTTCCT TGCCAACACC AGAAATCCAG TCAGATTTCT TACATAGCAA      60
AGTCGAAGCT CCTCCTTCAG AGGTGGCGGA TACGTTAGTA ATAATGACTG CTTCCAAGGG      120
TGTTGCACTC CCAGAACCCA AAGATAAGAT TTTGGAGACA CCTCAGAAAA TGACAGAAAA      180
ATCTGAATCA AAGACACCAG GAGAAGGGAA AAAGGAAGAT AAAAGCAGAA TGGCAGAACC      240
AATGAAAGGC TACATGAGAC CCACCAAGCT CGAG                                                                           274

```

## (2) INFORMATION FOR SEQ ID NO:1442:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 274 base pairs

(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1442:

GAATTCGGCC	TTCATGGCCT	ACCTTTCTCC	ATGTTTAACT	GGGCTGCTCC	CCATTCTCTG	60
CCTCCCTGTC	TCCTCAGCCG	CCAGAGCCCA	GCCCCTCCGA	CCAGGCCTCA	CCCACCCCCA	120
CCCGACCTT	CCCTGAGGGT	CCTTTCCTCA	GTACCACTGA	CACTTGGAGG	CAGGAAACCC	180
AAACCTCCTT	AACTAAGGCC	TCATTACCT	CGAAAGCAGT	GGTGCTTCCC	TCTGTTTCATC	240
CAGGGCCATA	AAGCCACTGT	CCCCTTAACT	CGAG			274

(2) INFORMATION FOR SEQ ID NO:1443:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 257 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1443:

GAATTCGGCC	TTCATGGCCT	AATTGCGCCA	TTGCACTCTA	GCCTGGGCGA	CGGAGCAAAA	60
CTCCATCTCA	AAAAAAAAAA	AAAAAAAAAN	NANTCNGAAA	CAGAAAAAAA	AAAAAGAATA	120
CACTGCATTG	CCATTATCTA	GTCAACCCTGT	GTAATATAGC	AGCAGAACTC	ATGCTTCCTG	180
TCTTAACTGT	AACTTTGTAT	CTGCTGACCA	ACCTCTCTCC	ATCCCCTCCT	CCCACCTACC	240
CTCCCCAGTC	CCTCGAG					257

(2) INFORMATION FOR SEQ ID NO:1444:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 258 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1444:

GAATTCGGCC	TTCATGGCCT	AGGAAGCATT	AAATTGGGCC	ATAGGAAGGA	CAAGTCACAT	60
CCAGTTTAGT	GATCAATGGT	GGTTGGGAA	AGAAATAACA	GAATTCTACT	CCTACATGAT	120
AGGGAGAGAC	TACAGAGGCC	ACCTAGACCA	ACAAACTCTG	CCATCAGGTC	CTTGAATCAT	180
TGCTACCATG	TCCTGGTGGT	GGTTGTAGCA	TTGCTAGTGA	TATGTAATC	ATTACCTACT	240
TATGCAAACC	ATCTCGAG					258

(2) INFORMATION FOR SEQ ID NO:1445:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 638 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1445:

GGATGGCTAC	GGCAGGGGGT	GGCTCTGGGG	CTGACCCGGG	AAGTCGGGGT	CTCCTTCGCC	60
TTCTGTCTTT	CTGCCGTCCTA	CTAGCAGGTT	TGTGCAGGGG	AAACTCAGTG	GAGAGGAAGA	120
TATATATCCC	CTTAAATAAA	ACAGCTCCCT	GTGTTGCGCT	GCTCAACGCC	ACTCATCAGA	180
TTGGCTGCCA	GTCTTCAATT	AGTGGAGACA	CAGGGGTTAT	CCACGTAGTA	GAGAAAGAGG	240
AGGACCTACA	GTGGGTATTG	ACTGATGGCC	CCAACCCCCC	TTACATGGTT	CTGCTGGAGA	300
GCAAGCATT	TACCAGGGAT	TTAATGGAGA	AGCTGAAAGG	GAGAACCAGC	CGAATTGCTG	360
GTCTTGCACT	GTCTTGACC	AAGCCCAGTC	CTGCCTCAGG	CTTCTCTCCT	AGTGTACAGT	420
GCCCAAATGA	TGGGTTTGGT	GTTTACTCCA	ATTCCNATGG	GCCAGAGTTT	GCTCACTGCA	480
GAGAAATACA	GTGGAATTCG	CTGGGCAATG	GTTTGGCTTA	TGAAGACTTT	AGTTTCCCCA	540
TCTTTCTTCT	TGAAGATGAA	AATGAAACCA	AAGTCATCAA	GCAGTGCTAT	CAAGATCACA	600
ACCTGAGTCA	GAATNGGTCA	GCACCAACCC	GACTCGAG			638

## (2) INFORMATION FOR SEQ ID NO:1446:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 269 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1446:

GCGAGCTCGT	GTTTTAAAGG	ACCAAATAGA	AGTTTACCAG	GAGAGAAGTG	ACAGAAGTGC	60
TGTCTAGATA	GAGGAAGGGC	ACACACAGAT	GCAAGCATGT	GCAGAAATGA	GCAAACCACT	120
GAGACGCTGC	CTTGAGCTCT	GTGTCACT	GCTATGTTGC	AGCCTGGGAG	GCTGTTCCCA	180
GTTGAGCCCT	TCGGAACCAG	CCATGAGATG	GCACGGGTAC	GCGGAAGGGA	GCAGTCTCCA	240
TGGCTGGGTG	GTGATGGGGG	CTTCTCGAG				269

## (2) INFORMATION FOR SEQ ID NO:1447:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 355 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

## (ii) MOLECULE TYPE: cDNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1447:

GGTCTCTCGC	CGCCGGAGGA	AGATGAGGCT	GAAGATTGGA	TTCATCTTAC	GCAGTTTGCT	60
GGTGGTGGA	AGCTTCCTGG	GGCTAGTGGT	CCTCTGGTCT	TCCCTGACCC	CGCGGCCGGA	120
CGACCCAAGC	CCGCTGAGCA	GGATGAGGGA	AGACAGAGAT	GTCAATGACC	CCATGCCCAA	180
CCGAGGCGGC	AATGGACTAG	CTCCTGGGGA	GGACAGATTC	AAACCTGTGG	TACCATGGCC	240
TCATGTTGAA	GGAGTAGAAG	TGGACTTAGA	GTCTATTAGA	AGAATAAACA	AGGCCAAAAA	300
TGAACAAGAG	CACCATGCTG	GAGGAGATTC	CCAGAAAGAT	ATCATACTTC	TCGAG	355

## (2) INFORMATION FOR SEQ ID NO:1448:

## (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 366 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1448:

GAATTCGGCC	TTCATGGCCT	ATCCTCTGCC	AAGACCAAAA	GGAAAGAAGA	AAAAGGGCCA	60
AAAGCCAAAA	TGAAACTGAT	GGTACTTGTT	TTCACCATTG	GGCTAACTTT	GCTGCTAGGA	120
GTTCAAGCCA	TGCCTGCAA	TCGCCTCTCT	TGCTACAGAA	AGATACTAAA	AGATCACAAC	180
TGTCACAACC	TTCCGGAAGG	AGTAGCTGAC	CTGACACAGA	TTGATGTCAA	TGTCCAGGAT	240
CATTTCTGGG	ATGGGAAGGG	ATGTGAGATG	ATCTGTTACT	GCAACTTCAG	CGAATTGCTC	300
TGCTGCCCAA	AAGACGTTTT	CTTTGGACCA	AAGATCTCTT	TCGTGATTCC	TTGCAACAAT	360
CTCGAG						366

(2) INFORMATION FOR SEQ ID NO:1449:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 267 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1449:

GATTTCTTAC	CCAAAGCTCT	GGAATTGTAC	ATTTATTTTT	TAAACTCAA	AGAGGGAAAG	60
AGCCTTGAT	CATATGTGAA	CATTGTATCA	TAGGTAATGT	TGTACAGACC	CTTTTATACA	120
GTGATCTGTC	TTGTTCTGTC	AGCAAAAATC	CTCTATGGAC	ATAGGAGGTG	CTGTGTCCCA	180
TGCCCTCTTG	CCCTGACAGT	GTCCCATGGG	CCCCCTTCTG	CTCCCTGCCC	CCTCCCTGCT	240
ACTGCTGATG	CACTCCCCCC	CCTCGAG				267

(2) INFORMATION FOR SEQ ID NO:1450:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 431 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1450:

GCGATTGAAT	TCTAGACCTG	CCTCGAGACC	TGGGGGGAGA	TTGGGCTCCC	TTTCCTCATG	60
ACATCCTGCC	CTATCAGGAC	TCTGGAGATA	GTGGGAGCGA	CTACCTTTTC	CCAGAAGCTA	120
GTGAAGAATC	AGCAGGCATC	CCGGGAAAGT	CAGAACTTCC	CTACGAAGAG	CTGTGGCTGG	180
AGGAAGGCAA	GCCCAGCCAT	CAGCCTCTCA	CTCGCTCTCT	GAGCGAGAAG	AACAGATGTG	240
ATCAGTTTAG	AGGTTCTGTC	CGATCCAAAT	GTGCGACTTC	TCCTCTTCCC	ATCCCTGGGA	300
CTCTGGGAGC	AGCAGTGAAG	TCTTCAGATA	CTGCCCTACC	TCCACCTCCA	GTGCCTCCCA	360
AATCTGAAGC	CGTCAGAGAA	GAATGCCGGC	TCCTGAACGC	CCCACCTGTT	CCACCCCGAA	420
GCGCACTCGA	G					431

(2) INFORMATION FOR SEQ ID NO:1451:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 347 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1451:

GCCTGCCCCC	ACCTTACAGG	TCTGGGATGT	ACCTTCCAT	CTGTTGCTGC	TTTCTTCTAT	60
GGGCCCCCTGC	CCTCACTCTC	AAGAACCTCA	ACTACTCCGT	GCCGGAGGAG	CAAGGGGCCG	120
GCACGGTGAT	CGGGAACATC	GGCAGGGATG	CTCGACTGCA	GCCTGGGCTT	CCGCCTGCAG	180
AGCGCGGCGG	CGGAGGGCGC	AGCAAGTCGG	GTAGCTACCG	GGTGCTGGAG	AACTCCGCAC	240
CGCACCTGCT	GGACGTGGAC	GCAGACAGCG	GGCTCCTCTA	CACCAAGCAG	CGCATCGACC	300
GCGAGTCCCT	GTGCCGCCAC	AATNCCAAGT	GCCAGCTGTC	CCTCGAG		347

(2) INFORMATION FOR SEQ ID NO:1452:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 335 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1452:

GGGGCAGAAG	TTGAATATAC	CGGCAATTTT	GCGAGCACCC	AAGGAGAGAA	AACCAAGTAA	60
AAAAGAAGGA	GGCACACAAA	AGACATCTAC	TCTTCTGCA	GTACTIONTATA	GTTGTGGGAT	120
TTGTAAGAAG	AACCATGATC	AGCATCTTCT	TTTATTGTGT	GATACCTGTA	AACTACATTA	180
CCATCTTGGA	TGTCTGGATC	CTCCTCTTAC	AAGGATGCCA	AGAAAGACCA	AAAACAGTTA	240
TTGGCAGTGC	TCGGAATGTG	ACCAGGCAGG	GAGCAGTGAC	ATGGAAGCAG	ATATGGCCAT	300
GGAAACCCTA	CCAGATGGAA	CCAAAACAAC	TCGAG			335

(2) INFORMATION FOR SEQ ID NO:1453:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 627 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1453:

GCGATTGAAT	TCTAGACCTG	CCTCGAGATC	CCCATGACTC	CTACATCCTC	TTTTGTGTCT	60
CCGCCACCAC	CCACTGCCTC	ACCTCATTCC	AACCGGACCA	CACCGCCTGA	AGCGGCCAG	120
AATGGCCAGT	CCCCCATGGC	AGCCCTGATC	TTAGTAGCAG	ACAATGCAGG	GGGCAGTCAT	180
GCCTCAAAAG	ATGCCAACCA	GGTCACTCC	ACTACCAGGA	GGAATAGCAA	CAGTCCGCCC	240
TCTCCGTCTC	CTATGAACCA	AAGAAGGCTG	GGCCCCAGAG	AGGTGGGGGG	CCAGGGAGCA	300
GGCAACACAG	GAGGACTGGA	GCCAGTGCAC	CCTGCCAGCC	TCCCGGACTC	CTCTCTGGCA	360
ACCAGTGGCC	CGCTGTGCTG	CACCCTCTGC	CACGAGCGGC	TGGAGGACAC	CCATTTTGTG	420
CAGTGCCCGT	CCGTCCCTTC	GCACAAGTTC	TGCTTCCCTT	GCTCCAGACA	AAGCATCAAA	480
TAGCAGGGAG	CTAGTGGAGA	GGTCTATTGT	CCCAGTGGGG	AAAAATGCCC	TCTTGTGGGC	540
TCCAATGTCC	CCTGGGCCTT	TATGCAAGGG	GAAATTGCAA	CCATCCTTGC	TGGAGATGTG	600
AAAGTGAAA	AAGGAGAGCG	ACTCGAG				627

(2) INFORMATION FOR SEQ ID NO:1454:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 394 base pairs
- (B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1454:

GAAC	TTTGAC	ACCT	ACACTT	AAATT	CTGAG	TCAT	TAAACA	GGC	CTACATT	TAT	CAACTGT	60
GGAA	AATATCA	GCC	AGTTTTT	GCAA	ACCTCT	TCTT	AGGACA	CTA	AGTTGTT	TGC	CAGAAATC	120
ACTA	GATTG	ACT	GACTCAG	CAACA	ATGTG	GTT	TATTCT	TTG	ATTAACT	TAG	TCCTTTT	180
TCTT	GGTCAA	GAG	TCAGTAG	ACAG	GACTGA	AGCT	TATGCC	CCT	TGCCCCC	CCAC	CACCAC	240
TCC	ATTACTA	CCAC	CTTGGT	TTAG	CCATCC	TTT	CTTGATC	TGT	TCTCCCC	ACT	TCTACTG	300
TGCT	ACTCTA	CAG	ACTTGCC	CTGA	ATGTAA	GAG	CAACAAT	TAC	CTTGTA	AGT	CCAAGTT	360
GGGG	CAGGTC	ACT	CCCAAAC	TCC	ACAACCT	CGAG						394

(2) INFORMATION FOR SEQ ID NO:1455:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 381 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1455:

CAG	ATGTTCA	GAT	ATATCTT	GAAT	TTTCTA	CGAA	CATCCA	AACT	CCTCAT	TCCT	GATGAT	60
TTCA	AGGACT	ACAC	TTTGTT	ATAT	GAAAGAG	GCA	AAATATT	TTCA	GCTTCA	GCCC	ATGTTG	120
TTGG	AGATGG	AAAG	ATGGAA	GCAG	GACAGA	GAA	ACTGGTC	GATT	TTTCAAG	GCC	CTGTGAG	180
TGC	CTCGTCG	TGCG	TGTGGC	CCC	AGACCTC	GGAG	AAAGGA	TCAC	GCTAAG	CGGT	GACAAA	240
TCCT	TGATAG	AAGA	AGTATT	TCC	AGAGATC	GGCG	ACGTGA	TGT	GTAATC	TGT	CAATGCA	300
GGCT	GGAATC	ACGA	CTCGAC	GCAC	GTCATC	AGGT	TTCCAC	TAA	ATGGCTA	CTGT	CACCTC	360
AACT	CAGTCC	AGGT	CCTCGA	G								381

(2) INFORMATION FOR SEQ ID NO:1456:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 309 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1456:

GGT	GACGCCT	GCTT	CACATC	TCTA	ATGAAC	ACC	CTCATGA	CGT	CGCTACC	AGCA	CTAGTG	60
CAG	CAACAGG	GAAG	GCTGCT	TCT	GGCTGCT	AAT	GTGGCCA	CC	TGGGGCT	CCT	CATGGCC	120
CGG	CTCCTTA	GCAC	CTCTCC	AGCT	CTTCAG	GGA	ACACCAG	CAT	CCCAGG	GTT	CTTCGCA	180
GCT	GCCATCC	TCTT	CTATC	ACAG	TCCCAC	GTGG	CGCGGG	CC	ACCCGGG	CTC	AGACCAG	240
GCAG	TGCTAG	CCCT	GTCCCC	TGAG	TATGAG	GGC	ATCTGGG	CCG	ACCTGCA	GGAG	CTCTGG	300
TTCT	TCGAG											309

(2) INFORMATION FOR SEQ ID NO:1457:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 374 base pairs

(B) TYPE: nucleic acid

- (C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1457:

GCACTATTAA	ACAGATACAA	CACAGAATAG	TATGTATAGA	GCATGGTATG	TAGCAGGGGC	60
CTATTCTGT	CTGAGTGGAC	AAGGAGGCTT	CCTAGAGGAA	GCAACATTTA	AAGCTGAGGG	120
CTGAAGGATG	AATAGGATTT	AACCAAGTAA	AAGTAAGAAA	GGAAGTGGGG	AGCTGGAAG	180
GGCATTCCAG	GAAGAAGAAA	CTGCATGTGC	AAAGGCCAGG	AGGTCAGAGC	GCACAGTGGA	240
TATGACGATG	TGGCTAGCTG	AGCATGTCTG	TGCAGTGTCA	ACTTTGTTGT	GAACACAGAG	300
GGAGGCTACT	GGGAAATTTT	AAGCAAGAGA	GTTGGAGTAT	GATCACATTT	GCATGTTAGA	360
AAGACACACT	CGAG					374

(2) INFORMATION FOR SEQ ID NO:1458:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 316 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1458:

GAATTCGGCC	TTCATGGCCT	ACATATTTAT	TATGTCAACC	TGTACTTCCC	TTTCCCTCTT	60
CCTCTCCCTC	TTTTCTCTCC	CTCTCCCTCT	CTCTCTCTTC	CTTCTCTCCC	TTCCAGGTAC	120
CCTAGATGAA	CCATGGGAGG	TCCTGGCTAC	ACAGCCATTG	TGTCTGAGAG	AGTCTGAGGA	180
CTCTGAGACC	CAGCCTTTTG	ACACGCACCT	TGAGGCCTAT	GGACCTTGCC	TGTCTCCACC	240
TAGGGCAATA	CCAGGAGACC	AACATCCAGA	GAGCCAGTT	CACACAGAGC	CAATGGGGAT	300
TCCGGGCAGG	CTCGAG					316

(2) INFORMATION FOR SEQ ID NO:1459:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 417 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1459:

GGAACCACCA	ATTCCGGACA	CACTGGGATT	ACAGTTCAG	GAAGGATGTT	ACCTTTGACG	60
ATGACAGTGT	TAATCCTGCT	GCTGCTCCCC	ACGGGTCAGG	CTGCCCCAAA	GGATGGAGTC	120
ACAAGGCCAG	ACTCTGAAGT	GCAGCATCAG	CTCCTGCCCC	ACCCCTTCCA	GCCAGGCCAG	180
GAGCAGCTCG	GACTTCTGCA	GAGCTACCTA	AAGGGACTAG	GAAGGACAGA	AGTGCAACTG	240
GAGCATCTGA	GCCGGGAGCA	GGTCTCCTC	TACCTCTTTG	CCCTCCATGA	CTATGACCAG	300
AGTGACAGC	TGGATGGCCT	GGAGCTGCTG	TCCATGTTGA	CAGCTGCTCT	GGCCCTGGA	360
GCTGCCAACT	CTCCTACCAC	CAACCCGGTG	ATCTTGATAG	TGGACAAAGT	GCTCGAG	417

(2) INFORMATION FOR SEQ ID NO:1460:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 222 base pairs  
 (B) TYPE: nucleic acid

(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1460:

GAATTCGGCC TTCATGGCCT ACTGAGAAAA AAAATCAAAT CTAATTTTAA AATGAAGGTA	60
TTTAAACCA TGGCACAAGG GAGCCTTATT TATGGAGCTG GTGGGAAGCC AGGATGTTTC	120
CAATCCGCTG CTCTTACAGG AGCCTGTGCC TCGCCAGTTC TGTGCTGCAG TGGGCAGCCA	180
ACTGAAGTGC ATGACTCAA TGCACGAAGC AGCAGACTCG AG	222

(2) INFORMATION FOR SEQ ID NO:1461:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 256 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1461:

GCTGCCTCCA TACTGTTTTA GGCAGCACCG TTTATGTGAC AGAGTCCGTG TTTCTCAAAT	60
GCATGGTGTT CCTCAGGTGG AGAGTGGGCA GAAGTTTTTG CAACACTTTT TTTTAAAGTT	120
ATTGGGTGCA AAATCCCAAA CCAGGATATG TGTATGTCTG TGTGTTTATG TTTTATTATT	180
GACCCTCCCC TCTTCAACC TACCCCTTT TATATCTAAT GTAGAAAAAG CGAAATTGAA	240
TCTGAAAAA CTCGAG	256

(2) INFORMATION FOR SEQ ID NO:1462:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 250 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1462:

GGGGGTGGAA GGCCTAGTGC TTGAAATGCA GGGATCTGGC AGTCAGCAGA AGGATCTGAG	60
ACCCAGTGTC GAGGTAAAA AAAAAACAAA AAACCAAAAA CCAATGCAGG AATCCAGTGG	120
GTGGAGTGAG GGGATCTGGG ATCCAGTGAT GGGGGCCCCA GGATCCAGGC ATTGTGGTTG	180
TCAGGATCCA GTGGTGAGGT TTGTTGACAT CCAGAATCCA GCAGCTGAGC TTGGAGATCC	240
AGGGCTCGAG	250

(2) INFORMATION FOR SEQ ID NO:1463:

(i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 279 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1463:



GAATTCGGCC	TTCATGGCCT	AAGTTTATAA	AAATTTACAGC	CAGAAAAACC	CAGGTAAGGA	60
TTTTTTTTAT	TTTTTTTTTA	TTTTTATTTT	TAGACCAGGT	GAGAATCCTT	TGTTCCACTG	120
AGATTTTAAA	ATTTAGTACA	TTCAAAATG	ATATTTCTAC	CATTTTCTCA	GCCTGCTTGT	180
CTTCTTATCT	TTGCAGCACT	GCTTATTGCC	ATCACTGCTT	ATCTGTTTAC	TCAACTTGAA	240
ACCTCAGAAT	TGTCCTTGAC	CTCATCCCCA	CATCTCGAG			279

## (2) INFORMATION FOR SEQ ID NO:1464:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 266 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1464:

GAATTCGGCC	TTCATGGCCT	AGGCCATTG	GTTCTAAACT	GCTTGACTAG	TTTAAAGCTC	60
ACATAATTCC	TTAAGCTTTC	ATATTTTCTT	AAATGCAAGG	AAATGAATAT	AAAAGCACTA	120
AATCTCCTGG	TTCACTGGTA	CAAAAATTAC	AATGGTCAGT	TCCCTTAGGT	CATCAAAAAC	180
TAGTCACAAA	AATAGTTCTT	GTATTCAACC	TGAATGTGCC	ACAGGAAAAA	AAAAATATTT	240
TCAAGATTTT	CCAGCTCAGC	CTCGAG				266

## (2) INFORMATION FOR SEQ ID NO:1465:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 259 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1465:

GAATTCGGCC	TTCATGGCCT	AAACATTTTC	TGAAAAACGT	GATAGAAAGA	AGGAGGAGCT	60
GTTTCTAGGA	GGGAAATAAA	TAATTTGGCA	GGAGACTTTT	TGAAGTAGAT	ATCTATTGAA	120
TAACAAAGTG	ACAATGTTCC	CCATCCTCTC	ATTTCATTTC	CCAATTTTAC	TTCTCGTCCC	180
AATTCAAATC	ATTCTTACTT	ATGATCGGCG	CTATGTCAGT	GCCTCTCAGC	TGGTCTTCCC	240
AGACCCAGTC	ACCCTCGAG					259

## (2) INFORMATION FOR SEQ ID NO:1466:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 332 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1466:

GCGCCTATCA	CAAGCAGATC	ATGGGTGGCT	TCAAGGAGAC	GAAGGAGGCT	GAAGATGGCT	60
TCCGCAAGGC	CCAGAAGCCT	TGGGCCAAGA	AGATGAAGGA	GCTGGAGGCA	GCCAAGAAGG	120
CCTACCATT	GGCTTGCAAA	GAGGAAAAGC	TGGCCATGAC	ACGGGAGATG	AACAGCAAGA	180
CGGAGCAATC	GGTCACACCT	GAGCAGCAAA	AGAAGCTGCA	GGACAAAGTG	GACAAGTGCA	240

AGCAGGATGT GCAGAAGACA CAGGAGAAGT ATGAGAAAGT GCTGGAAGAT GTGGGCAAGA 300  
CCACACCCCA GTACATGGAG AACAACTCG AG 332

(2) INFORMATION FOR SEQ ID NO:1467:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 301 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1467:

GCTCGAGATG TGCTGTCTTC CATGCAAAGT GGAATTTGAC AATCACTGTG CCGTGCCTTG 60  
GGACATCCTG AAAGCCAGCA TGAACACATC CTCTAATCCT GGGACACCGC TTCCGCTCCC 120  
CCTCCGAATT CAGAATGACC TCCACCGACA GCAGTACTCC TATATTGATG CCGTCTGTTA 180  
CGAGAAACAG CTCCATTGGT TTGCAAAGTT TTTCCCTAT CTGGTGTCTT TGCACACGCT 240  
CATCTTTGCA GCCTGCAGCA ACTTTTGGCT TCACTACCCC AGTACCAGTT CCAGGCTCGA 300  
G 301

(2) INFORMATION FOR SEQ ID NO:1468:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 436 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1468:

GAATTCGGCC TTCATGGCCT AGTGAAAAT GGGAGGCATG AAATACATCT TTTCGTTGTT 60  
GTTCTTTCTT TTGCTAGAAG GAGGCAAAC AGAGCAAGTA AAACATTGAG AGACATATTG 120  
CATGTTTCAA GACAAGAAGT ACAGAGTGGG TGAGAGATGG CATCCTTACC TGGAACCTTA 180  
TGGGTTGGTT TACTGCGTGA ACTGCATCTG CTCAGAGAAT GGGAAATGTC TTTCAGCCG 240  
AGTCAGATGT CCAAATGTTT ATTGCCTTTC TCCTGTGCAT ATTCTTCATC TGTGCTGCCC 300  
TCGCTGCCCC GAAGACTCCT TACCCCCAGT GAACAATAAG GTGACCAGCA AGTCTTGCGA 360  
GTACAATGGG ACAACTTACC AACATGGAGA GCTGTTCGTA GCTGAAGGGC TCTTTCAGAA 420  
TCGGAACCA CTCGAG 436

(2) INFORMATION FOR SEQ ID NO:1469:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 297 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1469:

GAATTCGGCC TTCATGGCCT AGTCTGGGCA ACAGAGCGAG ACCTTGTCTC AAAAAAAAAA 60  
AAAAAAAAAC AAAGTAAAAA AAGATATGTG TTTGATTAAAT AACAGTCCTG ATTTAAAAACA 120  
ACAGCACTGT CTTTGTAGCC TTCACTCAGT ATGCAACTCC TTTATACAGA TTTTATTTTA 180  
ATTTTATATA CACACTGCTT GAGAAGCATA TTTATTTCCG TTTTGTGTG TGCATGTGGT 240

GGACAGGAAA CAGTGGTTCA GAGAGATGAA GCACCCTGCC CACCACATGC ACTCGAG 297

(2) INFORMATION FOR SEQ ID NO:1470:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 325 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1470:

GAATTCGGCC	TTCATGGCCT	AGGACCTATT	CTATCAGCAG	CATTTGACAC	CACTGATTAC	60
TCATTCTGCT	CTGGTGACT	TTCTTCAATT	GCTTCCAAGA	CACCATAAAT	TCTTCTGCCT	120
TGCTGGCTGC	CTTGCTGGT	TCCTCCTCTT	CTCCCTGACC	TCTTAATGTT	GGAGAACCAC	180
AGGGCTTAGT	CCTTGGTCCT	CTTCTCTCTT	TTCTTTACAC	TGTGGTCCTC	AGTGAGGGAG	240
ATAGGTAGAT	CCACTGTCCC	GATCTTAACC	CAAAGAAAGA	CTGCTGTCC	AGCTACGGGG	300
GCTGTGGTCA	GAAGGCAGCC	TCGAG				325

(2) INFORMATION FOR SEQ ID NO:1471:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 421 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1471:

GAATTCGGCC	TTCATGGCCT	ACAAAAGGAT	GGGAAATGCC	TGCATTCCCC	TGAAAAGAAT	60
TGCTTATTTT	CTATGTCTCT	TATCTGCGCT	TTTGCTGACT	GAGGGGAAGA	AACCAGCGAA	120
GCCAAAATGC	CCTGCCGTGT	GTACTTGTA	CAAAGATAAT	GCTTTATGTG	AGAATGCCAG	180
ATCCATTCCA	CGCACCGTTC	CTCCTGATGT	TATCTCATTA	TCCTTTGTGA	GATCTGGTTT	240
TACTGAAATC	TCAGAAGGGA	GTTTTTTATT	CACGCCATCG	CTGCAGCTCT	TGTTATTCAC	300
ATCGAACTCC	TTTGATGTGA	TCAGTGATGA	TGCTTTTATT	GGTCTTCCAC	ATCTAGAGTA	360
TTTATTCATA	GAAAACAACA	ACATCAAGTC	AATTTCAAGA	CATACTTTCC	GGGTACTCGA	420
G						421

(2) INFORMATION FOR SEQ ID NO:1472:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 233 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1472:

GAATTCGGCC	TTCATGGCCT	AGTACTCCAT	CTCATCCATC	TCATGGTAGT	TCAGAAATGC	60
CTATATTCCT	TCTTAAATTC	ACCAGGATTT	TGTTTTTTTC	TTTCACCCCC	TTTTTGCCCTT	120
TCTTATTTTC	ATCCTTCCAT	TTCACTCATT	TCCACTCATG	TTTAGCAGTT	TCTATCCTTT	180
TCTTTCCTGG	CGTTTTAGCG	TCACACATAG	AAACCTATCA	CCATCAGCCC	TCG	233

## (2) INFORMATION FOR SEQ ID NO:1473:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 253 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1473:

```
GCGATTGAAT TCTAGTTGCC TACCTACCAA ACTACCTACT GAACTTTTTA ATTTGAAGAT      60
ATTCTTCCTG GACTACTTGT TTATAGTTTA TTAAATGAAC TGCTCTATTT CTA AAAA ACTT      120
TATTTT TAAA GTCCTTTCCC GTTTAGAATG CGGCATACTC TTGCTTGTGG GGTATATATC      180
TCTGATCGTG ATA ACTACCT ACCGAAAACC TTTCATGGCT CCTTGCCAAC TACAAAATTG      240
CGATATCCTC GAG                                     253
```

## (2) INFORMATION FOR SEQ ID NO:1474:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 424 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1474:

```
GAATTCGGNC TTCATGGCCT ACCGCAAGTT CCTCCTGACC TTCAGGGAGC CTGACTTAGA      60
GAAGAAGTAC TCCAAGCAGG TAGACGACCG ATTTGGTGCC TATGTGGCGT GTGCCTCGCT      120
CGTCTTCCTC TTCATCTGCT TTGTCCAGAT CACCATCGTG CCCCCTCCA TATTCATGCT      180
CAGCTTCTAC CTGACCTGTT CCCTGCTGCT GACCTTGGTG GTGTTTGTGT CTGTGATCTA      240
CTCCTGCGTA AAGCTCTTCC CCTCCCCACT GCAGACCCTC TCCAGGAAGA TCGTGCGGTC      300
CAAGATGAAC AGCACCTTGG TTGGGGTGTT CACCATCACC CTGGTGTTCC TGGCGGCTTT      360
TGTC AACATG TTCACGTGCA ACTCCAGGGA CCTGCTGGGC TGCTTGGCAC AGGAGCGTCT      420
CGAG                                     424
```

## (2) INFORMATION FOR SEQ ID NO:1475:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 315 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: double
  - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1475:

```
GAATTCGGCC TTCATGGCCT ACTCTGTGTT GGTAAGTAAA AGCCCTCCAG CATAGGTATA      60
CACTTAGTTG TTCCTTCCAG TG GTTATCAT ACTTCTTTTC TTGCCATAGT TACATGCTAA      120
CAACGTCCCA AAGCTATAGT TGCTCTTGCA TTTTGTCTT AATTCTTGTA AGATAAACTA      180
ATAATACAGG GAGTAAATGT GCACTGTTTA TTAATTA AAA TCCCGGGGAC ACGGGATAAA      240
CTGAAGGAAA TCGTGCTTTT TGAAAAGTAG GTGTAGCTTG CCATGCTGCA TTGTCTTATA      300
CCCACAAAAC TCGAG                                     315
```

## (2) INFORMATION FOR SEQ ID NO:1476:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 321 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1476:

```
GAATTCGGCC TTCATGGCCT AGCCATCATG TTTATTAGAA GGTGGATT TGGTGTGTGC      60
TCTAGACAGA TACAGAATAA ATACCTGCGC CTTGAGAACA GGAAGTCCAC GATTCATACA      120
AAGTGCTCAC TACAGGAAGT TGCTGTGTCA AAATCCAGGC AAGGACCCAA CTCCGGGCAG      180
CCCCTCCTCC CTGCTGACCT CAACAAGGCG TGTGCTATTG TTTTATTATT TATTATTTTA      240
TTTCTCTTTA TTATTATTAA TATTATTATT ATTTGCTTTT GCTGTGGTCA CTATCATTGG      300
CAAAGTTCCT TTCCTCGA G                                     321
```

(2) INFORMATION FOR SEQ ID NO:1477:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 215 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1477:

```
GAATTCGGCC TTCATGGCCT AAGCAAAGCT AAGTGTAATA CTAAAAAGCA GTTGTGTGCA      60
ACTGGTCATA AAAGTGATTA AATCTAAAGC TGGCATTAAT AAGGAAGCAA GGTAATAAAA      120
CAAAAATATA AACAGCTTTG AGAAAGTACA CCTAATAACA AAATCTTGTA ACACAACAAA      180
TGAAAATCAC AAAAAATATA AGGAGACTCC TCGAG                                     215
```

(2) INFORMATION FOR SEQ ID NO:1478:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 291 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1478:

```
GAATTCGGCC TTCATGGCCT AATCGGTCTC CTTTGGAGAG ATCACTAGAA CAGAAAAACA      60
ACCCAGATTA TAACTGGAAT GTTCGGAAAA CATAAAGGAC AGCTCGTAAA GGAGAGAGTA      120
AGAGTCACCA AACACGTGGA TATTTTGGT CTGATCCTAC AGTAGCCGGT TATCTAGACC      180
AGTAAGTGGA GTTTTGGACA TGCTGCTGCT GTCACTCAC TGGCTGAAGG AGCACTTCAA      240
GGAATGGGAG GCCTTTCCT GGTCCAGCT CTGATTCGGA TCACTCTCGA G                                     291
```

(2) INFORMATION FOR SEQ ID NO:1479:

- (i) SEQUENCE CHARACTERISTICS:  
 (A) LENGTH: 514 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1479:

```
GAATTCGGCC TTCATGGCCT AGAGAAAGAA ATGGCTCGAA CAGAAAACAG TGGTCTTGAA      60
AGGCAACGCA ACAGTAGGTT ACAAATAGCA TTAGCTTTT CTTTAAAGAA ATTCATTGTA      120
ACCACTGAAG GATAAGATT TAAATTAGAA AAATGGAAAT CCTATGAATA AAAAAGTAGT      180
AAGCTTGAGA GCAGAATCAC TGTGGAAAAA AAACAGATTG AAAAATAACT TGCAGGTATC      240
ATAGACAGGA AATTGCCACT AGAGAAAACA GGAACTTGT GATAGATAAA AATGAAGTAT      300
TTTCATTTGG AACAAAGAGAC CAACTGAAGA GAGATCAAGT GAAGGGGGTT TATTTTAATG      360
AAACACAAAG ATTCTTGTGG AAATCAAAGT GCCGGAGCCA GAAACAGGGC TCAACCTTCA      420
AGATTAGAGC TGTATTCAAG TTGTCAAGT TGGCTCTCGG TCCCAAAGCA ACAGCAATGT      480
CACTAAGGTT ACAAGTAAA GGTAAAGCCCT CGAG                                514
```

(2) INFORMATION FOR SEQ ID NO:1480:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 194 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1480:

```
GAATTCTAGA CCTGCCCTC CACTGCTCCC CATACCTGG CACGATGCGT TCCTGGTCAC      60
TGATCACCAT CATTTTGGGA AGAGAATCCC AATCCCTGGC ACCTGGGTTT GCCTCATCCA      120
ACCATCCTTC CTTTCTCAG CTGCACCCCT TCTGCAGATC TGAAGACACA CCTCACTCTT      180
CCAGGGCCCT CGAG                                194
```

(2) INFORMATION FOR SEQ ID NO:1481:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 385 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1481:

```
GACGCGCCCG GCCTCCTCTT TCATTTCAGT ATACGTAATA AGAAGTCAGA AATTACCTTT      60
AACCAAGCCT GGAAATCTCC TTATCTAGAT CATTATATTC TTTAGGTACA TTTTACTT      120
TCTACATTAC CACTCACAAC AATATGCTA AATTTTTTCC TCTAAATAAG AAGGATCCC      180
TTTTTCTAAT AACACTTTCT TTATTTTCT TTAACCTTTC ACTGAAAGCC CCCTCAAAG      240
CTACCTGGCT TATGCTAACA GTATGTTGA TGTCTTTCA ATACTACTCT GTTCCATCT      300
GTCTAGCATC CACCTGCCTC CCAATCTCAA AGTCTCCATC ATATTTTGTC AGTTTTTAGT      360
TTTTTTGTTA TGGTGCAACC TCGAG                                385
```

(2) INFORMATION FOR SEQ ID NO:1482:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 376 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1482:

GAATTCGGCC	TTCATGGCCT	AGGTTCTGGG	ATAGCTGATT	GTTGGCCACC	CCCGCCCTGG	60
AATGGAAACC	CTGTTAGGCC	AGGGCCAGAG	CAGGTGGCCA	TGAAGCAAGA	CGGCAAAGGC	120
ATTGGAGGAT	GTCCCACCTC	CACACATACG	CCCAGGCATT	TCTTGGCTGG	GGAATGGTGT	180
TACAGGATCC	ACAAGCACAG	AGATGGGAAA	ACAGTGTGTC	TGGGGAACAC	CAAGAGTTGG	240
GGTTGCCTGG	AGGACAGATA	GACTCAGGGG	GGACATCCAG	AGGTAACACT	AGGTCCGCAG	300
GTGGGTTTCAG	AGGCCCCAGC	TCTATCCCCT	TATTCCCAGC	CGGATTAAAG	AATAATCTGA	360
GTATGGTTCC	CTCGAG					376

(2) INFORMATION FOR SEQ ID NO:1483:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 347 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1483:

GAATTCGGCC	TTCATGGCCT	ATGGATCCAT	CATGGGACAA	TTACTAGTTA	TTACTTTTCC	60
TCCGCTTCAG	AAGGTTTTTC	AGACTGAGAG	CCTAAGCATA	CTGGATCTGT	TGTTTCTTTT	120
GGGTCTCACC	TCATCAGTGT	GCATAGTGGC	AGGCCTGGTC	AGTAATCTTC	TCTACTGTTA	180
TAGTACAGCA	GCTTTTAGGT	CCACTGATTG	CATTCTTAAT	TTGAGTATTT	AATATTTATT	240
TTATTAACCT	AAGGTTTTCA	TTGTCACTA	TAGCATGGTC	TCATAATTTT	CAAAAAATCA	300
GAAACAGTA	GATGTTGGCG	TGGATGCAGT	GAACAGGGTT	ACTCGAG		347

(2) INFORMATION FOR SEQ ID NO:1484:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 709 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1484:

GAATTCGGCC	TTCATGGCCT	ACGAGAATAT	TGTGGAGAAC	TGGTCAGTAG	AAGAACAAGC	60
AATGGAAATG	GATTTGAGTG	TCCTTCAACA	GGTAGAAGAT	CTAGAAAGGA	GAGTTGCATC	120
AGCAAGTTTG	CAAGTGAAGG	GTTGGATGTG	TCCAGAGCCT	GCATCAGAAA	GGGAGGACTT	180
GGTATATTTT	GAACATAAAT	CATTTACTAA	ATTGTGCAAG	GAGCATGATG	GAGAATTTAC	240
TGGCGAAGAC	GAAAGCAGTG	CACATGCACT	AGAACGGAAG	AGTGACAACC	CCCTAGATAT	300
AGCTGTAACC	AGGCTGGCTG	ATTTGGAGCG	GAACATTGAA	AGAAGGTATC	TGAAGAGCCC	360
CTTAAGTACC	ACCATTCAGA	TCAAACCTGA	TAATGTGGGC	ACAGTTACTG	TCCCTGCTCC	420
TGCACCATCC	GTTAGTGGTG	ATGGTGACGG	AATTGAAGAG	GATATTGCTC	CAGGGCTCAG	480
GGTATGGAGA	AGGGCATTAT	CAGAAGCTCG	CAGTGCTGCA	CAGGTAGCTC	TGTGCATTCA	540
GCAATTACAG	AAATCAATAG	CATGGGAAAA	ATCAATTATG	AAAGTTTACT	GCCAAATCTG	600
TCGAAAGGGA	GATAATGAAG	AACCTGCTTCT	TCTTTGTGAT	GGCTGTGACA	AAGGCTGTCA	660
TACCTACTGC	CATAGACCCA	AGATTACAAC	AATCCCAGAT	GCTCTCGAG		709

(2) INFORMATION FOR SEQ ID NO:1485:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 272 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1485:

GAATTCGGCC	TTCATGGCCT	ACTGTTTCAG	AACTTCGTA	CCTTTTCTT	GTATGTAGCA	60
CGTATAAATG	CAGCTGTCAT	GCAGTTCTTT	TCTTTTGCTA	GAAAATTAGT	CAGGAGGTAA	120
GATGAATCTT	CCAAAGTTAT	GTTAAATTTT	GTTTAACTTG	ACAAATTAAA	CTTTGTTCTT	180
ATTAAACAAA	TACGTAAACA	AATACTGGAA	AAGCAAAGCT	TATATTTGGG	AGTAAATGT	240
ATCTTAAAT	GCATGTTCAA	CTTTTGCTCG	AG			272

(2) INFORMATION FOR SEQ ID NO:1486:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 350 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1486:

GAATTCGGCC	TTCATGGCCT	ACCGAGGACG	AGGGGAAGAT	GTCACGCAAG	ATAGAAGGCT	60
TTTTGTTATT	ACTTCTCTTT	GGCTATGAAG	CCACATTGGG	ATTATCGTCT	ACCGAGGATG	120
AAGGCGAGGA	CCCCTGGTAC	CAAAAAGCAT	GCAAGTGC GA	TGCCAAGGA	GGACCCAATG	180
CTCTGTGGTC	TGCAGGTGCC	ACCTCCTTGG	ACTGTATACC	AGAATGCCCA	TATACAAGC	240
CTCTGGGTTT	CGAGTCAGGG	GAGGTCACAC	CGGACCAGAT	CACCTGCTCT	AACCCGGAGC	300
AGTATGTGGG	CTGGTATTCT	TCGTGGACTG	CAAACAAGGC	CCATCTCGAG		350

(2) INFORMATION FOR SEQ ID NO:1487:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 276 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1487:

GAATTCGGCC	TTCATGGCCT	AGTACCTGAA	GGCCTTCAAG	GTGGCCTACA	GCCTTAATGG	60
ACACGAATTC	GATTTTCATCC	ATGATGTTAA	TAAAAACAC	AAGGAGTTTG	TGGGTAAGTG	120
GAACAAAAAC	GCGGTGCATG	TCAACCTGTT	TGAGACCCCT	GTGGAGGCTC	AGTACGTGAG	180
ATTGTACCCC	ACGAGCTGCC	ACACGGCCTG	CACCTGCGCG	TTTGAGCTAC	TGGGCTGTGA	240
GCTGAACGGA	TGCGCCAATC	CCCTGGGCGT	CTCGAG			276

(2) INFORMATION FOR SEQ ID NO:1488:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 595 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: double  
 (D) TOPOLOGY: linear



(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1488:

```

GAATTCGGCC TTCATGGCCT AGTGGAGATT ACTTGGCACC ACTCTCCTTT CACAGAGCAG      60
AGTCTGAATA GTCTTCAGAG ATAGGCCTGT GGGCCAGATT GCCATCCCCT ATGGACCAGA      120
AGCCAAGGAT CTCTCTAGTG ATGGTCAGAG GGCCCAAATG GCAGGGATAC CCAGTGATGT      180
CAGGAGGAAT AGTACAGACA GAAGGTGCTA AGCAGACAAT TCAACTGCCA TGTTTTGCCA      240
CCCCCTGTGA GCAGGGATTA GGTGTTCCAGG CCAGTATCTT GGGCATGGGG GAGCCTTTGG      300
CCAGAAGAGG TATAAAGCTC AGAAGTTTTT CAGTCTGATA ACTATTGATA TAATTTCCAT      360
AGTGTGAGGG AGCGGTATGC TCTACCCTTG TGTATTAAAG GCAGGACAGA GAAATGAGG      420
ATGCCCCTGG GGCTAGATCG ATGATATGAC CAGAAATCAA AAAGGGAATG CATTATTTAT      480
TGCTGTGTAA CACTGTTAAG AGAGGAGGTA GTTAAGGGAT GGATAGGCAC ATAGAGAGGG      540
AAGGTCTCAG GAGAAGGGAT AGAAAGGAAC TATGTTTACA AGAACACAC TCGAG          595

```

(2) INFORMATION FOR SEQ ID NO:1489:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 297 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1489:

```

GAATTCGGCC TTCATGGCCT ACAATTTAAT AGTATAACAA ATCCCCTAGA ATAGTAGAGG      60
AGAGAGGAAT CTTCCCCTGA TATGTTTTTG TAATACTTCT TCCTCCTCTT CAGTCAATAG      120
GGAAATGTTT GTTGAAAGAC TACTTTGCAG ACATTAGAA AGATACAGAG TAAGTGAAG      180
ATGTCCTTCC TTGTCCTTGA GGAGTCTCTA GTCAGGCACA GGTAGGACTA AATGAAAAAC      240
AACTACAGAA CTAAGTAGAA GAGTGTAACA TAATATGGGG AATGTGGAAC ACTCGAG      297

```

(2) INFORMATION FOR SEQ ID NO:1490:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 273 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1490:

```

GAATTCGGCC TTCATGGCCT ACTTACTTTT CCAAAGAATT TTTCCACCT GGAATAAGAA      60
GAGAGGACTA GTTGAAACAT TTGAGCTGGA GAGGCTTATG GGCAATATGA AGTGGGCCAA      120
ATTCTTGCAA TACACCCTAT TCAATTGAAA GTACAGTGTC TAAGGATAAG AATACTTCTT      180
TAAAGACCAA CAATTGTTT AATGCAATCT TAATTAGTAA ATGGTTTACA TTTTCTCTAT      240
TGTTATTGGT TTAAAATT GCTACCGCTC GAG          273

```

(2) INFORMATION FOR SEQ ID NO:1491:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 660 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1491:

```

GAATTCGGCC TTCATGGCCT ATTGAATTCT AGACCTGCCT CAGGGTAAGG GAGATTTAAT      60
CTTTTTCTTT ACTATTTTCT AGTTTCTATG AGCATGGATT ACTTGTGCAA ATCAAAACAA      120
AACAAACGGA TGGCTCATCC GGCAAACATC CATGGGCAGG GTTGGTGTCT GGTGCTGGAC      180
GCAGAGATGA ATGGAGGGCT CTGGCCTCAG CGGCTCACAG TCTGGTGAGC ATAGACAGTG      240
CTTTCGATGT GAGAGCAGAC CTGAGTGTCT CCTGGGACTC CAGGCACAGT TCTCCCTGCA      300
GCTCACAGCA CTTACCCTTA CTGCACCATT AACTTCTACT CTAGCTCACT GCCTCTTAAC      360
TCTGAGCGCC TTGAAGGCAC AAAATGAGTC CCATCTGGGT CTTTAGCAGC TGGCAGAAAA      420
CCTAGCTCAA ACTCATGCTC TAAAAACCCC TGCTGAGGGA GTGGGCGAAT GCAGGCAGCC      480
CTGGCAGTGG GATCAAGTTC AGGGAGTGGC CTGGGAGGCA TCACCCCAAG GCTGAGAAGA      540
CCTTGAAGTG CTGTTAGGG TTTTGCTGTC TCTCCCAAGG CATGACTCGG CCCAGGAGGA      600
GATGGGGCAG ATGCTGCAGA AGGAGGGTTC ATGCCCCCTC ACTGCTGCCC ATGACTCGAG      660

```

(2) INFORMATION FOR SEQ ID NO:1492:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 315 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1492:

```

GCTGTGCTAT CTGTTGTCCA GCATCTGACA CAGTTGGTTT TATATTTTGT CTGGTTTCTA      60
GTTATTAAGC AGGTAAAGTC TGGTTCCTGC TGTCTATAT AGCAGGAAGC AAAGGTTCTC      120
TCATGAATTT TTAGCATAAT AACATAAGCG TGGATTCCAA AAATTCATTA CACAGATCCT      180
GGAAATCTGT TTAATATGTT TTATACATTC TGTGAAAGCT GGAGAATATA TATTTGTTTT      240
ACTATGTGTA TCGCAAATAA AATATCAATT TCATGTGCCA GAGAATTGAA TACATTATCA      300
AAGGGTCAAC TCGAG

```

(2) INFORMATION FOR SEQ ID NO:1493:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 356 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1493:

```

GGGACAACAA GCCCATCTGG ATGCACGCAG AGGAGCGGGA GGAAAGCAAG GATAAGCGCC      60
GGGACAGCGC CCCCTATGGG GAATACGGCA GCTGGTACAA GGCCTGTAAA GTAGACAGCC      120
CCACAGTCAA CACCACCCTG CGCAGCTTGG GGGCCCTATA CCGGCGCCAG GGCAAGCTGG      180
AAGCCGCGCA CACACTAGAG GACTGTGCCA GCCGTAACCG CAAGCAGGGT TTGGACCCCG      240
CAAGCCAGAC CAAGGTGGTA GAACTGCTGA AAGATGGCAG TGGCAGGCGG GGAGACCGCC      300
GCAGCAGCCG AGACATGGCT GGGGGTGCCG GGCCTCGGTC TGAGTCTGAC CTCGAG      356

```

(2) INFORMATION FOR SEQ ID NO:1494:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 366 base pairs
- (B) TYPE: nucleic acid

(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1494:

GAATTCGGCC	TTCATGGCCT	AGTAAAGGGA	TTTATAATAA	CATTAAAAAT	TTCGTTAGAT	60
TCCAGCTGAG	CACGAGTATA	GCAGCATTA	CTTTAATCTC	ATTGGCTACA	TTAATGAACT	120
TTCCTAATCC	TCTCAATGCC	ATGCAGATTT	TGTGGATCAA	TATTATTATG	GATGGACCCC	180
CAGCTCAGAG	CCTTGGAGTA	GAACCAGTGG	ATAAGATGT	CATTCGTAAA	CCTCCTCGCA	240
ACTGGAAAGA	CAGCATTTTG	ACTAAAACT	TGATACTTAA	AATACTTGTT	TCATCAATAA	300
TCATTGTTTG	TGGGACTTTG	TTTGTCTTCT	GGCGTGAGCT	ACGAGACAAT	GTGATTACAC	360
CTCGAG						366

(2) INFORMATION FOR SEQ ID NO:1495:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 258 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1495:

GCTCGAGCGT	TGAGGTCAAC	ACTTCCTCCA	GGGAAAAGGA	TTCCATTAAT	AGATTGAAA	60
AGTATTTTCT	AGTCTTTCTC	TGTAAGATCC	AGCCTTACTG	GTACAACTCT	CGCACCTGCA	120
GACTCCAAGT	ACTTTACATA	GGACGAGCA	ATATAGTATC	TTCCATAGTT	TTTCATGACT	180
TTATTACGGC	ATTTTGCAT	TAATATTCCG	ATGATGGGCT	TCTTGGCGGT	GTCCGCCGTGG	240
GGTCTAGACT	ATCTCGAG					258

(2) INFORMATION FOR SEQ ID NO:1496:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 437 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1496:

GAATTCGGCT	TCATGGCCTA	CTCTCTTTCT	CCATGTTAAA	CCCCTTGGCA	TGAATGAAAG	60
GCTTTCCTCT	TTATCCTTGC	TGTGTTTATT	CATTGTGTCC	AATGAGCTTC	TGAAGGTAGG	120
AGTAACTTTG	CACATTTTGC	TGTGTGGGCT	GCTGCATCTC	TGCCAAAAGG	TTTATGGGAT	180
TTTTACTCAG	GAGATCCAGG	AAAAGGAGGA	GCCTGGAATC	TAAGCACTTA	TCTCCTGAAA	240
AGGTACAGAA	ACATGTTGGA	GATCTTGAGC	CTCAAGGTGC	TTGCTTCAGA	ATTTTCCTGA	300
TTCTCCCTCT	CCAGACCTAT	TCTGTTCTTG	GGACCCAAGC	TTCTTGGCTC	CAGCCCACTC	360
CCCCACTAGA	GGAGCTGGAA	AGTTTGGTGC	TGTGTCATA	CCAAAGATGG	GCAACACCCA	420
GACTCCTCAC	CCTCGAG					437

(2) INFORMATION FOR SEQ ID NO:1497:

(i) SEQUENCE CHARACTERISTICS:  
(A) LENGTH: 516 base pairs  
(B) TYPE: nucleic acid

(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1497:

GAATTCGGCC	TTCATGGCCT	AGTGCAGGTC	CTGGTGCTTG	ATGGTCGAGG	CCATCTCCTG	60
GGCCGCCTGG	CGGCCATCGT	GGCTAAACAG	GTACTGCTGG	GCCGGAAGGT	GGTGGTCGTA	120
CGCTGTGAAG	GCATCAACAT	TTCTGGCAAT	TTCTACAGAA	ACAAGTTGAA	GTACCTGGCT	180
TTCCTCCGCA	AGCGGATGAA	CACCAACCCT	TCCCGAGGCC	CCTACCACTT	CCGGGCCCCC	240
AGCCGCATCT	TCTGGCGGAC	CGTGCGAGGT	ATGCTGCCCC	ACAAAACCAA	GCGAGGCCAG	300
GCCGCTCTGG	ACCGTCTCAA	GGTGTTTGAC	GGCATCCAC	CGCCCTACGA	CAAGAAAAAG	360
CGGATGGTGG	TTCCTGCTGC	CCTCAAGGTC	GTGCGTCTGA	AGCCTACAAG	AAAGTTTGCC	420
TATCTGGGGC	GCCTGGCTCA	CGAGGTTGGC	TGGAAGTACC	AGGCAGTGAC	AGCCACCCTG	480
GAGGAGAAGA	GGAAAGAGAA	AGCCAAGAAC	CTCGAG			516

(2) INFORMATION FOR SEQ ID NO:1498:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 329 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1498:

GCGAGTCCT	GACCTCAGGT	GATCTACCCG	CCTCAGCCTC	CCAAAGTGTT	AGGATTACAG	60
GCGTGAGCCA	CCGCACCTGG	CACCCCCCCC	CTTTTTTTT	AATATAAATG	ATCAGTCTTA	120
ACTCCCTAGG	TTATCAGGTT	GAGGGGGTGG	GGATGAGGCT	GGGGGACAGA	TTGTTTTCTT	180
GGCTTCTAGC	TCGGTGTTCT	TTCTGCCTCT	GTGCACAACA	AGGTATGCGT	GTATTGTGGT	240
TGTGGACTGT	GTTGTGGGAC	TGCCTATTCA	CAAGTGGCTA	TGAGGCCCAT	CTGCTGATGC	300
TTTTGGATGC	ACTTGGCGAT	GAACTCGAG				329

(2) INFORMATION FOR SEQ ID NO:1499:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 430 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: double  
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1499:

GAATTCGGCC	TTCATGGCCT	AGGAGCGCGG	TGGCCACGGA	ACGCTGCCCC	GAGCCGCGCG	60
AGGGAGGACC	CGACGCGCGG	CGTTTACCCA	GCGCAGCGTT	CCACCGCTCG	GGTTTGGCTG	120
GATAAAATAA	AAAATGGGGA	TATTGACCTC	CTGTCACTAC	TGCATGGACT	TTGATGGTTT	180
CCAATCATTA	CTTCTCCTC	TGTGTCAATC	TGCCTCTTCG	AGAAATTCAT	ACTCCTGAAT	240
AGCTCTCCAG	ACCCCCAGCT	GGCCATGTGG	TGAGTTCAGG	GCCCCAATCA	AGTAGTACCA	300
GCAATCAGGG	AACTCCTATC	TGTTTTGAAT	GGATTACAC	CAGCCACAAG	CCTGGAAAGA	360
TGGTGTCA	ATCTACAGTC	AGGCAGGATT	CTCCTGTGGA	GCCCTGGGAA	GGGATCAGCG	420
ATCACTCGAG						430

(2) INFORMATION FOR SEQ ID NO:1500:

- (i) SEQUENCE CHARACTERISTICS:  
    (A) LENGTH: 375 base pairs  
    (B) TYPE: nucleic acid  
    (C) STRANDEDNESS: double  
    (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1500:

GAATTCGGCC	TTCATGGCCT	AGCCAAGTCT	GGGAAGCCTT	AAGGAAAGGA	GTGCCCCTCG	60
GCGTCTTGGT	CCTCCTGTCC	CTGCTGCAGG	GGCTGGGGCC	TCCGGAGCTG	CTGCGGGGCTC	120
CCCTCAGGCT	CTGCTTCGTG	ACCCGTGACC	CATGACCCAC	AGTGCTGGCC	TCCTGTGGGG	180
CCACTATAGC	AGCCACCAGA	AGCCGCGAGG	CCCTCAGGGA	AGCCCAAGGC	CTGCAGAAGC	240
CTCCTGGCCT	GGCTGTGTCT	TCCCCACCCA	GCTCTCCCCT	GCGCCCCTGT	CTTTGTAAAT	300
TGACCCTTCT	GGAGTGGGGG	GCGGCGGGCA	GGGCTGCTTT	TCTTAGTCTG	ATACCAAGCA	360
AGGCCTTTTC	TCGAG					375

What is claimed is:

1. An isolated polynucleotide comprising a nucleotide sequence selected from the group consisting of:

SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ ID NO:16, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:19, SEQ ID NO:20, SEQ ID NO:21, SEQ ID NO:22, SEQ ID NO:23, SEQ ID NO:24, SEQ ID NO:25, SEQ ID NO:26, SEQ ID NO:27, SEQ ID NO:28, SEQ ID NO:29, SEQ ID NO:30, SEQ ID NO:31, SEQ ID NO:32, SEQ ID NO:33, SEQ ID NO:34, SEQ ID NO:35, SEQ ID NO:36, SEQ ID NO:37, SEQ ID NO:38, SEQ ID NO:39, SEQ ID NO:40, SEQ ID NO:41, SEQ ID NO:42, SEQ ID NO:43, SEQ ID NO:44, SEQ ID NO:45, SEQ ID NO:46, SEQ ID NO:47, SEQ ID NO:48, SEQ ID NO:49, SEQ ID NO:50, SEQ ID NO:51, SEQ ID NO:52, SEQ ID NO:53, SEQ ID NO:54, SEQ ID NO:55, SEQ ID NO:56, SEQ ID NO:57, SEQ ID NO:58, SEQ ID NO:59, SEQ ID NO:60, SEQ ID NO:61, SEQ ID NO:62, SEQ ID NO:63, SEQ ID NO:64, SEQ ID NO:65, SEQ ID NO:66, SEQ ID NO:67, SEQ ID NO:68, SEQ ID NO:69, SEQ ID NO:70, SEQ ID NO:71, SEQ ID NO:72, SEQ ID NO:73, SEQ ID NO:74, SEQ ID NO:75, SEQ ID NO:76, SEQ ID NO:77, SEQ ID NO:78, SEQ ID NO:79, SEQ ID NO:80, SEQ ID NO:81, SEQ ID NO:82, SEQ ID NO:83, SEQ ID NO:84, SEQ ID NO:85, SEQ ID NO:86, SEQ ID NO:87, SEQ ID NO:88, SEQ ID NO:89, SEQ ID NO:90, SEQ ID NO:91, SEQ ID NO:92, SEQ ID NO:93, SEQ ID NO:94, SEQ ID NO:95, SEQ ID NO:96, SEQ ID NO:97, SEQ ID NO:98, SEQ ID NO:99, SEQ ID NO:100, SEQ ID NO:101, SEQ ID NO:102, SEQ ID NO:103, SEQ ID NO:104, SEQ ID NO:105, SEQ ID NO:106, SEQ ID NO:107, SEQ ID NO:108, SEQ ID NO:109, SEQ ID NO:110, SEQ ID NO:111, SEQ ID NO:112, SEQ ID NO:113, SEQ ID NO:114, SEQ ID NO:115, SEQ ID NO:116, SEQ ID NO:117, SEQ ID NO:118, SEQ ID NO:119, SEQ ID NO:120, SEQ ID NO:121, SEQ ID NO:122, SEQ ID NO:123, SEQ ID NO:124, SEQ ID NO:125, SEQ ID NO:126, SEQ ID NO:127, SEQ ID NO:128, SEQ ID NO:129, SEQ ID NO:130, SEQ ID NO:131, SEQ ID NO:132, SEQ ID NO:133, SEQ ID NO:134, SEQ ID NO:135, SEQ ID NO:136, SEQ ID NO:137, SEQ ID NO:138, SEQ ID NO:139, SEQ ID NO:140, SEQ ID NO:141, SEQ ID NO:142, SEQ ID NO:143, SEQ ID NO:144, SEQ ID NO:145,

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or a complement of said sequence.

2. An isolated polynucleotide consisting of a nucleotide sequence selected from the group consisting of:

SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ ID NO:16, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:19, SEQ ID NO:20, SEQ ID NO:21, SEQ ID NO:22, SEQ ID NO:23, SEQ ID NO:24, SEQ ID NO:25, SEQ ID NO:26, SEQ ID NO:27, SEQ ID NO:28, SEQ ID NO:29, SEQ ID NO:30, SEQ ID NO:31, SEQ ID NO:32, SEQ ID NO:33, SEQ ID NO:34, SEQ ID NO:35, SEQ ID NO:36, SEQ ID NO:37, SEQ ID NO:38, SEQ ID NO:39, SEQ ID NO:40, SEQ ID NO:41, SEQ ID NO:42, SEQ ID NO:43, SEQ ID NO:44, SEQ ID NO:45, SEQ ID NO:46, SEQ ID NO:47, SEQ ID NO:48, SEQ ID NO:49, SEQ ID NO:50, SEQ ID NO:51, SEQ ID NO:52, SEQ ID NO:53, SEQ ID NO:54, SEQ ID NO:55, SEQ ID NO:56, SEQ ID NO:57, SEQ ID NO:58, SEQ ID NO:59, SEQ ID NO:60, SEQ ID NO:61, SEQ ID NO:62, SEQ ID NO:63, SEQ ID NO:64, SEQ ID NO:65, SEQ ID NO:66, SEQ ID NO:67, SEQ ID NO:68, SEQ ID NO:69, SEQ ID NO:70, SEQ ID NO:71, SEQ ID NO:72, SEQ ID NO:73, SEQ ID NO:74, SEQ ID NO:75, SEQ ID NO:76, SEQ ID NO:77, SEQ ID NO:78, SEQ ID NO:79, SEQ ID NO:80, SEQ ID NO:81, SEQ ID NO:82, SEQ ID NO:83, SEQ ID NO:84, SEQ ID NO:85, SEQ ID NO:86, SEQ ID NO:87, SEQ ID NO:88, SEQ ID NO:89, SEQ ID NO:90, SEQ ID NO:91, SEQ ID NO:92, SEQ ID NO:93, SEQ ID NO:94, SEQ ID NO:95, SEQ ID NO:96, SEQ ID NO:97, SEQ ID NO:98, SEQ ID NO:99, SEQ ID NO:100, SEQ ID NO:101, SEQ ID NO:102, SEQ ID NO:103, SEQ ID NO:104, SEQ ID



NO:105, SEQ ID NO:106, SEQ ID NO:107, SEQ ID NO:108, SEQ ID NO:109, SEQ ID NO:110, SEQ ID NO:111, SEQ ID NO:112, SEQ ID NO:113, SEQ ID NO:114, SEQ ID NO:115, SEQ ID NO:116, SEQ ID NO:117, SEQ ID NO:118, SEQ ID NO:119, SEQ ID NO:120, SEQ ID NO:121, SEQ ID NO:122, SEQ ID NO:123, SEQ ID NO:124, SEQ ID NO:125, SEQ ID NO:126, SEQ ID NO:127, SEQ ID NO:128, SEQ ID NO:129, SEQ ID NO:130, SEQ ID NO:131, SEQ ID NO:132, SEQ ID NO:133, SEQ ID NO:134, SEQ ID NO:135, SEQ ID NO:136, SEQ ID NO:137, SEQ ID NO:138, SEQ ID NO:139, SEQ ID NO:140, SEQ ID NO:141, SEQ ID NO:142, SEQ ID NO:143, SEQ ID NO:144, SEQ ID NO:145, SEQ ID NO:146, SEQ ID NO:147, SEQ ID NO:148, SEQ ID NO:149, SEQ ID NO:150, SEQ ID NO:151, SEQ ID NO:152, SEQ ID NO:153, SEQ ID NO:154, SEQ ID NO:155, SEQ ID NO:156, SEQ ID NO:157, SEQ ID NO:158, SEQ ID NO:159, SEQ ID NO:160, SEQ ID NO:161, SEQ ID NO:162, SEQ ID NO:163, SEQ ID NO:164, SEQ ID NO:165, SEQ ID NO:166, SEQ ID NO:167, SEQ ID NO:168, SEQ ID NO:169, SEQ ID NO:170, SEQ ID NO:171, SEQ ID NO:172, SEQ ID NO:173, SEQ ID NO:174, SEQ ID NO:175, SEQ ID NO:176, SEQ ID NO:177, SEQ ID NO:178, SEQ ID NO:179, SEQ ID NO:180, SEQ ID NO:181, SEQ ID NO:182, SEQ ID NO:183, SEQ ID NO:184, SEQ ID NO:185, SEQ ID NO:186, SEQ ID NO:187, SEQ ID NO:188, SEQ ID NO:189, SEQ ID NO:190, SEQ ID NO:191, SEQ ID NO:192, SEQ ID NO:193, SEQ ID NO:194, SEQ ID NO:195, SEQ ID NO:196, SEQ ID NO:197, SEQ ID NO:198, SEQ ID NO:199, SEQ ID NO:200, SEQ ID NO:201, SEQ ID NO:202, SEQ ID NO:203, SEQ ID NO:204, SEQ ID NO:205, SEQ ID NO:206, SEQ ID NO:207, SEQ ID NO:208, SEQ ID NO:209, SEQ ID NO:210, SEQ ID NO:211, SEQ ID NO:212, SEQ ID NO:213, SEQ ID NO:214, SEQ ID NO:215, SEQ ID NO:216, SEQ ID NO:217, SEQ ID NO:218, SEQ ID NO:219, SEQ ID NO:220, SEQ ID NO:221, SEQ ID NO:222, SEQ ID NO:223, SEQ ID NO:224, SEQ ID NO:225, SEQ ID NO:226, SEQ ID NO:227, SEQ ID NO:228, SEQ ID NO:229, SEQ ID NO:230, SEQ ID NO:231, SEQ ID NO:232, SEQ ID NO:233, SEQ ID NO:234, SEQ ID NO:235, SEQ ID NO:236, SEQ ID NO:237, SEQ ID NO:238, SEQ ID NO:239, SEQ ID NO:240, SEQ ID NO:241, SEQ ID NO:242, SEQ ID NO:243, SEQ ID NO:244, SEQ ID NO:245, SEQ ID NO:246, SEQ ID NO:247, SEQ ID NO:248, SEQ ID NO:249, SEQ ID NO:250, SEQ ID NO:251, SEQ ID NO:252, SEQ ID NO:253, SEQ ID NO:254, SEQ ID NO:255, SEQ ID NO:256, SEQ ID NO:257, SEQ ID

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or a complement of said sequence.

3. An isolated polynucleotide consisting essentially of a nucleotide sequence selected from the group consisting of:

SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ ID NO:16, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:19, SEQ ID NO:20, SEQ ID NO:21, SEQ ID NO:22, SEQ ID NO:23, SEQ ID NO:24, SEQ ID NO:25, SEQ ID NO:26, SEQ ID NO:27, SEQ ID NO:28, SEQ ID NO:29, SEQ ID NO:30, SEQ ID NO:31, SEQ ID NO:32, SEQ ID NO:33, SEQ ID NO:34, SEQ ID NO:35, SEQ ID NO:36, SEQ ID NO:37, SEQ ID NO:38, SEQ ID NO:39, SEQ ID NO:40, SEQ ID NO:41, SEQ ID NO:42, SEQ ID NO:43, SEQ ID NO:44, SEQ ID NO:45, SEQ ID NO:46, SEQ ID NO:47, SEQ ID NO:48, SEQ ID NO:49, SEQ ID NO:50, SEQ ID NO:51, SEQ ID NO:52, SEQ ID NO:53, SEQ ID NO:54, SEQ ID NO:55, SEQ ID NO:56, SEQ ID NO:57, SEQ ID NO:58, SEQ ID NO:59, SEQ ID NO:60, SEQ

ID NO:61, SEQ ID NO:62, SEQ ID NO:63, SEQ ID NO:64, SEQ ID NO:65, SEQ ID NO:66, SEQ ID NO:67, SEQ ID NO:68, SEQ ID NO:69, SEQ ID NO:70, SEQ ID NO:71, SEQ ID NO:72, SEQ ID NO:73, SEQ ID NO:74, SEQ ID NO:75, SEQ ID NO:76, SEQ ID NO:77, SEQ ID NO:78, SEQ ID NO:79, SEQ ID NO:80, SEQ ID NO:81, SEQ ID NO:82, SEQ ID NO:83, SEQ ID NO:84, SEQ ID NO:85, SEQ ID NO:86, SEQ ID NO:87, SEQ ID NO:88, SEQ ID NO:89, SEQ ID NO:90, SEQ ID NO:91, SEQ ID NO:92, SEQ ID NO:93, SEQ ID NO:94, SEQ ID NO:95, SEQ ID NO:96, SEQ ID NO:97, SEQ ID NO:98, SEQ ID NO:99, SEQ ID NO:100, SEQ ID NO:101, SEQ ID NO:102, SEQ ID NO:103, SEQ ID NO:104, SEQ ID NO:105, SEQ ID NO:106, SEQ ID NO:107, SEQ ID NO:108, SEQ ID NO:109, SEQ ID NO:110, SEQ ID NO:111, SEQ ID NO:112, SEQ ID NO:113, SEQ ID NO:114, SEQ ID NO:115, SEQ ID NO:116, SEQ ID NO:117, SEQ ID NO:118, SEQ ID NO:119, SEQ ID NO:120, SEQ ID NO:121, SEQ ID NO:122, SEQ ID NO:123, SEQ ID NO:124, SEQ ID NO:125, SEQ ID NO:126, SEQ ID NO:127, SEQ ID NO:128, SEQ ID NO:129, SEQ ID NO:130, SEQ ID NO:131, SEQ ID NO:132, SEQ ID NO:133, SEQ ID NO:134, SEQ ID NO:135, SEQ ID NO:136, SEQ ID NO:137, SEQ ID NO:138, SEQ ID NO:139, SEQ ID NO:140, SEQ ID NO:141, SEQ ID NO:142, SEQ ID NO:143, SEQ ID NO:144, SEQ ID NO:145, SEQ ID NO:146, SEQ ID NO:147, SEQ ID NO:148, SEQ ID NO:149, SEQ ID NO:150, SEQ ID NO:151, SEQ ID NO:152, SEQ ID NO:153, SEQ ID NO:154, SEQ ID NO:155, SEQ ID NO:156, SEQ ID NO:157, SEQ ID NO:158, SEQ ID NO:159, SEQ ID NO:160, SEQ ID NO:161, SEQ ID NO:162, SEQ ID NO:163, SEQ ID NO:164, SEQ ID NO:165, SEQ ID NO:166, SEQ ID NO:167, SEQ ID NO:168, SEQ ID NO:169, SEQ ID NO:170, SEQ ID NO:171, SEQ ID NO:172, SEQ ID NO:173, SEQ ID NO:174, SEQ ID NO:175, SEQ ID NO:176, SEQ ID NO:177, SEQ ID NO:178, SEQ ID NO:179, SEQ ID NO:180, SEQ ID NO:181, SEQ ID NO:182, SEQ ID NO:183, SEQ ID NO:184, SEQ ID NO:185, SEQ ID NO:186, SEQ ID NO:187, SEQ ID NO:188, SEQ ID NO:189, SEQ ID NO:190, SEQ ID NO:191, SEQ ID NO:192, SEQ ID NO:193, SEQ ID NO:194, SEQ ID NO:195, SEQ ID NO:196, SEQ ID NO:197, SEQ ID NO:198, SEQ ID NO:199, SEQ ID NO:200, SEQ ID NO:201, SEQ ID NO:202, SEQ ID NO:203, SEQ ID NO:204, SEQ ID NO:205, SEQ ID NO:206, SEQ ID NO:207, SEQ ID NO:208, SEQ ID NO:209, SEQ ID NO:210, SEQ ID NO:211, SEQ ID NO:212, SEQ ID NO:213, SEQ ID NO:214, SEQ ID NO:215, SEQ ID NO:216, SEQ ID NO:217,

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or a complement of said sequence.

4. An isolated polynucleotide comprising a nucleotide sequence which hybridizes to a sequence selected from the group consisting of:

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[illegible]

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or to a complement of said sequence.

5. An isolated protein encoded by an isolated polynucleotide of claim 1.
6. An isolated protein encoded by an isolated polynucleotide of claim 2.
7. An isolated protein encoded by an isolated polynucleotide of claim 3.
8. An isolated protein encoded by an isolated polynucleotide of claim 4.